CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, July 15, 1909.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(*denotes that this work is advertised in Engineering News)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids. close.	Work.	Place.	See issue.
7-17	Water-wks,	Pleasant Hill, O.	(S). 7- 8
7-20	Sewers,	Shelbyville, Ind.	(S.) 7- 1
7-24	Engines, etc.,	Phila., Pa.	(S.) 6-24
7-24	Pavements,	Boston, Mass.	(S) 7- 1
7-26*	Pavement,	Kenova, W. Va.	(S.) 7- 1
7-27*	Bridge,	Clinton, Me.	(P. & S.) 7- 1
7-27	Power plant,	Greenville, Tex.	(S.) 7-15
7-30	Wasteway,	Sunnyside, Wash.	(S) 7- 1
7-31	Buildings,	Annapolis, Md.	(S.) 7- 8
7-31	Improv. bldg.,	Boston.	(S.) 7- 8
7-31*	Sidewalk, etc,	Galveston, Tex.	(S.) 7- 1
7-31*	Dredging,	Galveston, Tex.	(S.) 7- 1
7-31	Repairing bldg.,	Wash., D. C.	(S.) 7-15
8- 2*	Generating station,	Winnipeg, Man.	(P. & S.) 6-10
9- 1*	Park system,	Minneapolis, Minn.	(S.) 7- 8

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

7-16 Elec. equip., Delaware, Ohio..... 7- 1
7-17 Transformers, etc., Clinton, Mo.. 7-15
7-18 Elec. supplies, Moose Jaw, Sask.. 7-15
7-19 Power, etc., Ellensburg, Wash.... 7-15
7-24 Engines, etc., Philadelphia, Pa.. 6-24
7-27* Power plant, Greenville, Tex..... 7-15
8- 2* Generating station, Winnipeg, Man. 6-10

BRIDGES.

7-15 Concrete steel bridges, Lorain, O. 7-15
7-16 Concrete steel bridge, Cleveland, Ohio 7-15
7-16 Bridge repairs, South Bend, Ind. 7-15
7-16 Bridge removal, Bellingham, Wash 7- 1
7-18 Bridge, Los Angeles, Cal..... 6-24
7-18 Bridge, Union City, Pa..... 7- 8
7-19 Bridge work, Columbus, Ohio..... 7- 1
7-19 Bridges, San Jose, Cal..... 7-15
7-19 Steel concrete bridge, Yankton, S. Dak..... 7-15
7-19 Steel bridge, Tuscarawas, O.... 7-18
7-19 Filling-in, Red Wing, Minn..... 7- 8
7-19 Concrete bridge, New Philadelphia, Ohio 7-15
7-19* Bridge, Red Wing, Minn..... 7- 8
7-20 Bridge, Cambridge, Ohio..... 6-24
7-20 Bridge, Kittanning, Pa..... 7- 8
7-20 Bridge, Byesville, Ohio..... 7- 8
7-21 Bridges, Cleveland, Ohio..... 7- 8
7-21* Superstructures, Denver, Colo... 7- 8
7-21* Bridges, Philadelphia, Pa..... 7- 8
7-21* R. R. bridge, Ohio (Rys.)..... 7-15
7-21* Bridges, Philadelphia, Pa..... 7- 8
7-21* Superstructure, Denver, Colo.... 7- 8
7-22 Bridge, Linden, N. J..... 7-15
7-23 Steel bridge, Lock Haven, Pa.... 7-15
7-26 Bridge, Youngstown, Ohio..... 7-15
7-27* Bridge, Clinton, Me..... 7- 1
7-28 Bridge repair, Cincinnati, Ohio.. 7- 8
7-30 Bridge, Findlay, Ohio..... 7-15
8- 2 Bridge, Zanesville, Ohio..... 7-15
8-11 Concrete bridge, Cleveland, O.... 7-15
8-28* Steel or concrete bridge, Sebec, Me..... 7-15

BUILDINGS.

7-15* Heating, Bayonne, N. J..... 7- 8
7-16 Hospital, New York 7- 8
7-16* Post-office, Corsicana, Tex..... 6- 3
7-16 Armory, New York 7- 1
7-16 Court-house, New London, Conn.. 7- 1
7-17 Home, Marysville, Ohio 7- 1
7-19 Schools, New York 7- 8
7-21* Post-office, Shenandoah, Iowa... 6-24
7-21 School, Clay City, Ind..... 7- 8
7-21 Mfg. plant, Louisville, Ky..... 7-15
7-22 Ice plant, New York. (Mfg. Pl.) 7-15
7-23 Refinery bldg., Ottawa, Ont..... 7-15
7-24 School, Arlington, Ind..... 7- 8
7-24 Quarters, etc., Annapolis, Md.... 7- 1
7-24 Building, New York..... 7- 1
7-26* Post-office, Platteville, Wis.... 6-24
7-26 Engine houses, New York..... 7-15
7-27 Hospital, Ft. Snelling, Minn..... 7-15
7-27 Post-office, Owensboro, Ky..... 6-24
7-28 Masonic temple, Sharon, Pa..... 6-17
7-29* Post-office, Hudson, N. Y..... 7- 1
7-31 Post-office, Belleville, Ill..... 7- 1
7-31 Improving bldg., Boston, Mass... 7- 8
7-31 Hospital bldgs., Annapolis, Md... 7- 8
7-31 Repairing bldg., Washington, D. C 7-15
8- 2* Repairs, etc., Ft. Monroe, Va.... 7-15
8- 2 Post-office, Eagle Pass, Tex..... 7- 8
8- 3 Post-office, Council Bluffs, Ia.... 7- 1
8- 4* Post-office, Bowling Green, Ky.. 7- 1
8- 5 Post-office, Gonzales, Tex..... 7-15
8- 5* Buildings, China. 5-27

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7-15* Water-works, Newport, Ky..... 7-15
7-16 Filtration plant, Ft. Collins, Colo. 7- 8
7-17 Water-works Pleasant Hill, O... 7- 8
7-17 Dam, c.-i. main, Pulaski, Va... 7- 8
7-19 Water system, Madera, Cal..... 7- 1
7-19 Supplies, Regina, Sask..... 7-15
7-20 Water-works extension, Moultrie, Ga 7-15
7-20* Pumps, New York 7- 1
7-20 W-Wks., Bridgeville, Del..... 7-15
7-21 Mains, New York..... 7-15
7-22 Water system, Lewisville, Ind.... 7-15
7-22 Pumping station, Grand Rapids, Mich. 7-15
7-22 Water system, Ft. Logan, Colo.. 7-15
7-22* Water-works system, Mount Morris, N. Y..... 7- 8
7-26* Filter plant, Burlington, N. J... 6-24
7-27* Pumping engine, Providence, R. 7- 8
7-27 Foundation, Waterbury, Conn... 7-15
7-27 Water-works, Osage City, Kan.. 7-15
7-28 Water-works Carl Junc., Mo.... 7-15
7-30 Wasteway, Sunnyside, Wash.... 7- 1
8- 2 Water, sewer system, Ft. St. Philip, La..... 7-15
8- 2 Well, Clarendon, Ark..... 7-15
8-16* Reclamation work, North Yakima, Wash..... 7-15
8-16 Supplies, Victoria, B. C..... 7-15
9-14 Pumping engines, Detroit, Mich. 7-15
No date Reservoirs, etc., Lyon, Miss... 7-15

SEWERS.

7-15 Sewers, Chicago, Ill..... 7-15
7-15 Sewers, Newark, N. J..... 7-15
7-16 Sewer system, Newkirk, Okla.... 7-15
7-16 Sewer, Buffalo, N. Y..... 7-15
7-16 Sewers, Liberty, Mo..... 7- 8
7-16* Sewer outlet, Fort Hancock, N. J. 6-24
7-16 Sewer extension, Kokomo, Ind.... 7- 1
7-17 Sewerage connections, Oxford, Ohio 7- 1
7-19 Sewer pipe, Regina, Sask..... 7-15
7-19 Sewers, Montgomery, Ala..... 7-15
7-20 Sewers, Mitchell, S. Dak..... 7-15
7-20 Sewer system, Shelbyville, Ind.. 7- 1
7-20 Sewers, New York, N. Y..... 7- 8
7-20 Sewer, etc., Bridgeville, Del.... 7-15
7-21 Sewers, Philadelphia, Pa..... 7- 8
7-21 Sewer, Bremen, Ind..... 7-15
7-21 Sewers, New York..... 7-15
7-22 Sewers, etc, Rockville, Ind.. ... 7-15
7-23 Sewer, Louisville, Ky..... 7-15
7-23 Sewers, Logan, Utah..... 7- 8
7-24 Sewers, Siverly, Pa..... 7-15
7-26 Sewer, Port Clinton, Ohio..... 7-15
7-26 Sewers, Atlantic City, N. J..... 7-15
7-26* Sewer, Columbus, Ohio..... 7-15
7-27 Sewers, Mobile, Ala..... 7- 8
7-28 Sewers, New York..... 7-15
8- 3 Sewers, Monticello, Ark..... 7-15
8- 3 Sewer system, Chandler, Okla.... 7-15
8- 3 Septic tank, Hopkinsville, Ky.... 7-15

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7-15* Parkway, Utica, N. Y..... 7- 8
7-16 Asphalt plant, Kansas City, Mo. 7-15
7-16 Roads, Columbus Barracks, Ohio. 7-15
7-16 Roads, Pittsburg, Pa..... 7-15
7-16 Roads, Hartford, Conn..... 7-15
7-17 Road impvt., Ashland, Wis..... 7-15
7-17 Paving, Wooster, Ohio..... 7-15
7-17* Paving, Orrville, Ohio 6-24
7-17 Roads, Scottsburg, Ind..... 7- 1
7-19 Roads, Bedford, Ind..... 7- 1
7-19 Paving, Aberdeen, S. Dak..... 7- 8
7-19 Paving, Latrobe, Pa..... 7- 8
7-19 Turnpike, Steubenville, Ohio..... 7- 8
7-19 Paving, etc., Regina, Sask..... 7-15
7-19 Asphaltic oil, Norwood, Ohio... 7-15
7-19 Paving, etc., Boston, Mass..... 7-19* Macadam, Hackensack, N. J..... 7- 8
7-19* Paving, Louisville, Ky..... 7- 8
7-19* Macadam, Somerville, N. J..... 7- 8
7-19 Street impvts., Albany, N. Y.... 7-15
7-20 Macadam, Trenton, N. J..... 7-15
7-20 Stone road, Wilmington, Del.... 7- 8
7-20 Paving materials, New York..... 7-15
7-21 Paving, etc., Canton, Ohio..... 7- 8
7-21 Regulating, etc., New York.... 7-15
7-21 Repairing sidewalks, New York.. 7-15
7-21 Paving, New York..... 7- 8
7-22 Trap rock, New York..... 7-15
7-22 Paving, New York..... 7-15
7-22 Paving, New York..... 7- 8
7-23* Paving, etc., Matteawan, N. Y... 7-15
7-23 Pike, Cincinnati, Ohio..... 7- 8
7-24 Pavements, Boston, Mass..... 7- 1
7-26* Pavement, Kenova, W. Va..... 7- 1
7-26 Paving, Huntington, W. Va..... 7- 8
7-26* State roads, Baltimore, Md..... 7-15
7-26* Sidewalks, etc., Hoboken, N. J... 7-15
7-26 Walks, Midland, Ont..... 7-15
7-26 Boulevard, Los Angeles, Cal..... 7-15
7-26 Roads, Toledo, Ohio..... 7-15
7-26 Roads, Wauseon, Ohio..... 7-15
7-27 Paving, etc., Mobile, Ala..... 7- 8
7-27 Paving, New York..... 7-15
7-28 Road, Cleveland, Ohio..... 7-15
7-29 Sprinkling oil, New York..... 7-15
7-31 Road, Findlay, Ohio 7-15
7-31* Sidewalk, etc., Galveston, Tex.... 7- 1
8- 2 Gravel road, Danville, Ind..... 7- 8
8- 2 Macadam, Morristown, N. J..... 7- 8
8- 2 Quarry machinery, etc., Los Angeles, Cal 7-15
8- 2 Gravel road, Danville, Ind..... 7-15
8- 2 Road, Vernon, Ind. 7-15
8- 2* Paving, Boise City, Idaho..... 7- 8
8- 2* Paving, etc., Norfolk, Va..... 7-15
8- 3 Stone roads, Fowler, Ind..... 7-15
8- 3 Macadam, Versailles, Ind..... 7-15
8- 4 Macadam, Somers Point N. J.... 7-15
8- 9 *Paving, Great Falls, Mont..... 7-15

MISCELLANEOUS.

7-15 Ditch, Bancroft, Neb..... 7-15
7-17 Ditch, Champaign, Ill..... 7-15
7-17 Flagstaffs, St. Louis, Mo..... 7- 8
7-19 Levee, Memphis, Tenn..... 7-15
7-20 Levee, New Orleans, La..... 7-15
7-20 Piers, North Chicago, Ill..... 7-15
7-20 Timber, plank, Albany, N. Y.... 7-15
7-20 Sand, stone, New York..... 7-15
7-20 Dredging, New York..... 7-15
7-20 Levee, Dardanelle, Ark..... 7- 8
7-21* Dredging, dock work, Chicago... 7- 8
7-21 Dredging, Wilmington, Del..... 7-15
7-21 Cable, New York 7-15
7-21 Bulkhead, New York..... 7-15
7-22 River improvements, Fremont, Neb..... 7-15
7-22 Wharf, Moncton, N. B..... 7- 8
7-22* Parade Ground fill, Fort Monroe Va. 6-24
7-23 Paint, Leavenworth, Kan..... 7-15
7-24 Ditch, Frankfort, Ind. 7-15
7-26* Dredging, Saginaw, Mich..... 7-15
7-28* Garbage furnace, Monessen, Pa.. 7 15
7-29 Wire fence, New York..... 7-15
7-27* Jetty, Wilmington, Del. 7- 8
7-28* Lock pit, Detroit, Mich..... 7- 1
7-31* Dredging, Galveston, Tex..... 7- 1
8- 3 Ditches, Hampton, Iowa..... 7-15
8- 3 Barge canal, Albany, N. Y..... 7-15
8- 6* Dredging, Galveston, Tex..... 7- 8
8- 9* Dredging, Galveston, Tex..... 7-15
8- 9* Dredging, Oswego, N. Y..... 7-15
8- 9 Drain, Des Moines, Ia..... 7-15
9- 9* Dredging, Wilmington, Del. 7-15
8-18 Battleships, Washington, D. C... 6-24
9-28 Vacuum system, Pierre, S. Dak. 7-15
9- 1* Park system, Minneapolis, Minn. 7- 8

EXAMINATIONS.

7-21 Engr., Washington, D. C..... 6-24
7-21 Designer, Philippines..... 7- 1
7-31 Asst. C. E., Albany, N. Y..... 7-15
7-31 Rodman, Albany, N. Y..... 7-15
8- 3 Asst. Engr., New York, N. Y.... 6-24

RAILWAYS.

ATCHISON, TOPEKA & SANTA FE.—Double-tracking work is being pushed at various points on this system between Chicago and Kansas City, Mo., and it is expected to have the entire 458 miles finished by the end of 1911, according to the "Railway Age-Gazette." Double track is already laid as follows: Chicago to Edelstein, 142 miles; Knox, Ill., through Galesbury to Surrey, 12 miles; Smithshire west across the Mississippi River, to Wyaconda, Mo., 69 miles; Bucklin to Rothville, 15 miles; Carrollton to Camden, 32 miles, and between Camden and Kansas City, 23 miles. This leaves about 165 miles yet to be constructed. From Edelstein, Ill., to Knox, 35 miles; Surrey to Smithshire, 18 miles; Wyaconda to Bucklin, 70 miles; Rothville to Carrollton, 32 miles, and between Camden and Kansas City, about ten miles. On the section from Edelstein to Knox the contracts for grading and masonry have been let and work is about to be started. Work is about to be commenced on the gap between Rothville and Carrollton; contracts for half of the work have been let. The grading and masonry for the second track will be finished this year and track laid and ballasted in the early spring. When all the improvements are finished the Santa Fe will have a complete double-track from Chicago west to Kansas City, 458 miles, a complete three-track line from Kansas City to Emporia, Kan., 128 miles, and a complete double track from Emporia to Mission, 83 miles.

ATLANTA, BIRMINGHAM & ATLANTIC.—Construction plans include the completion of the line from Pelham, Ala., to Bessemer, 16 miles, it is stated, and from Bessemer to Birmingham, 12 miles. Also the completion of the branch from Bessemer to the coal and iron properties of the Birmingham Coal & Iron Co. at Mulga and other parts of the Birmingham district. Alex. Bonnyman is Gen. Mgr., Atlanta, Ga. Noted last week.

CANADIAN NORTHERN.—The Railroad Commission, Ottawa, Ont., has approved route maps for the following branches in Alberta and Saskatchewan, Strathcona to Calgary, Stoney Plain to the Boraseau River and from Maryfield to Lethbridge. Also for the branch to run from Prince Albert to Battleford, Sask.

A large amount of work is projected and under way on the Canadian Northern between the Great Lakes and Winnipeg, according to the Montreal "Gazette." Between Fort Williams, Ont., and Fort Frances the line is being reballasted and relaid with 80 and 85-lb. rails. The grade from Kakabeka Falls to Slate will be greatly reduced, and Stanley Hill will be cut off from the main line, but is to be taken in by the Duluth extension, which it is proposed to build in connection with the Duluth, Rainy Lake & Winnipeg. The road is also said to have four survey parties at work in British Columbia on the section between Tete Jaune Cache and Vancouver. When this work is completed the road will have surveys between the Yellowhead Pass and the mouth of the Fraser River by way of the Upper Fraser River to Tete Jaune Cache, and by Cranberry and Albreda lakes to the head waters of the North Thompson River thence down the North Thompson River to Kamloops to the South Thompson River, following the river to the Fraser River at Lytton, thence along the Fraser River to the seaboard."

CANADIAN PACIFIC.—The Railroad Commission, Ottawa, Ont., has approved route maps for lines to be built by the company from Langdon to a point near Red Deer, Alta., and from Weyburn, Sask., to Lethbridge, Alta.

CENTRAL R. R. OF OREGON.—Construction of about 90 miles of new line is contemplated, including a line from Union Junction, Ore., on the Oregon Railroad & Navigation Co., north to Walla Walla, Wash. The company operates 18 miles of road from Union Junction to Cove. R. H. England is Gen. Mgr., Union, Ore., and Rochester, N. Y. V. T. Hammer is Vice-Pres., 214 Summer St., Boston.

CENTRALIA & SANDOVAL.—This company has been incorporated in Illinois, with $2,500 capital, to build from a point on the Chicago, Burlington & Quincy, 1¼ miles north of Centralia, Ill., in Marion County, north to Sandoval, about five miles. The incorporators include J. A. Connell and J. M. Doring, of La Grange; H. Haas, of Western Springs; E. D. Noreham, of Aurora, and H. W. Weiss, of Hinsdale.

CHICAGO, AURORA & DE KALB.—Incorporated in Illinois, with $350,000 capital, to build from Aurora, Ill., in Kane County, northwest to De Kalb, in De Kalb County, about 30 miles. The office of the company is at Aurora. The incorporators include J. H. Bliss, of Sugar Grove; F. W. Radlin, of Kaneville; and F. M. Killian, J. F. Kane and E. J. Lyon, all of Aurora.

CHICAGO, BURLINGTON & QUINCY.—We are officially advised that MacARTHUR BROS. CO., Fisher Bldg., Chicago, has been awarded contract for building a new line for the C., B. & Q., in Wyoming, from Kirby to Shoshoni, 44 miles. The work is heavy, comprising about 2,500,000 cu. yds. earth and 1,500,000 cu. yds. rock, also ten tunnels. F. C. Hitchcock, Gen. Mgr., for MacArthur Bros. Co., is now at Thermopolis, Wyo., where headquarters will be located, making arrangements for an immediate and vigorous start upon the work. The work will be under the direct charge of Dennis Madden, Gen. Supt. of MacArthur Bros. Co.

FORT SMITH, ARKOMA & SOUTHWESTERN.—Incorporation papers have been filed in Oklahoma. Company plans to build from the Arkansas state line at Fort Smith southwest through La Flore, Haskell and Latimer Counties, Oklahoma, to Wilburton, about 65 miles. A. J. Yorke, Pres.; F. Brown, Vice-Pres.; E. D. Bedwell, Secy.

GRAND TRUNK PACIFIC.—The Railroad Commission, Ottawa, has approved the company's plans for the proposed branch from Watrous, Sask., to Prince Albert, Sask. This branch will leave the main line at Young, one station west of Watrous.

The Railroad Commission has approved plans for the company's branch lines from Regina, Sask., southwards to North Portal, on the international boundary. This is another link of the company's proposed line to Hudson's Bay, the lines southward from Melville, Sask., to Regina, and northward from Melville to Yorkton, now being under contract.

The Railroad Commission has approved the route maps for the following branch lines: Biggar to Battleford, Sask.; Regina to Melville, Sask.; Melville to Yorkton, Sask.

The contract has been let for 200 miles of the main line between the McLeod River, Alta., and the Rocky Mountains to FOLEY, WELSH & STEWART, of St. Paul, Minn., and Winnipeg, Man. Work will commence at once.

HERRIN SOUTHERN. — Incorporated in Illinois, with $100,000 capital. The present plans of the road contemplate only the extension of the Chicago, Burlington & Quincy Ry., from Herrin, Ill., south of the Ohio River at Metropolis, a distance of 57 miles. It will then cross the Ohio River by a bridge to be erected and run south to Paducah, Ky. The Burlington already has bought a large amount of property at Metropolis, Ill., for terminals. The incorporators are: Daniel Willard, Second Vice-Pres. of the Burlington; P. E. Ward, Gen. Mgr.; J. M. Dering, Chief Clerk to Mr. Willard; E. A. Howard and L. B. Larson, all of Chicago.

MANITOULIN & NORTH SHORE.—We are officially informed that contract has been awarded to O'BOYLE BROS. CONSTRUCTION CO., Ltd., Sault Ste. Marie, Ont., for building an 8-mile section between Sudbury, Ont., and Little Current. Noted on May 27. C. N. Cobwin is Ch. Engr., Sault Ste. Marie, Ont.

MARKED TREE, NEWPORT & WESTERN.—Incorporated in Arkansas to build a railroad from Marked Tree to Newport, Ark., 40 miles. Capital authorized, $500,000, $100,000 subscribed. Line will run via Harrisburg and Waldenburg. The incorporators are E. Ritter, W. W. Cate and J. H. Harrison, of Jonesboro; W. B. Miller, M. W. Hazel and N. Fisher, of Marked Tree; J. C. Mitchell, J. A. Bradsher and L. C. Going, of Harrisburg, and C. B. Bailey, of Wynne, Ark.

NEW BRUNSWICK.—WHEATON BROS., Folly, N. S., have been awarded a contract for building a 16-mile line of railway for the Drummond Mines Co., Fredericton, N. B., to Bathhurst from the mines.

NEW RIVER, HOLSTON & WESTERN.—Contract has been awarded to W. O. LIPSCOMB, Roanoke, Va., to build an extension of this railroad from Day to Rocky Gap, Va., eight miles. F. E. Bastian, Narrows, Va., is Engr.

*OHIO.—The Secretary of the Board of Trustees of the Ohio State University, at Columbus, Ohio, will receive bids until July 21st, for the construction of a railroad track about one mile long, including a bridge 225 ft. long. Plans and specifications may be seen at the office of the Board in Columbus, or at the office of J. R. Chamberlin and C. T. Morris, Engrs., in Brown Hall, Ohio State University. Noted fully on July 1.

PENNSYLVANIA R. R.—Contract has been recently given by the Pennsylvania R. R. Co. and Northern Central Ry. Co. to the EYRE-SHOEMAKER CO., Inc., Arcade Bldg., Philadelphia, Pa., for the construction of a new classification yard at Northumberland, Pa., about two miles west of Sunbury. The contract calls for a yard about three miles long to cover an area of about 700 acres. The construction work involves about 3,000,000 cu. yds. of grading, 18,000 cu. yds. of bridge and culvert masonry, 70 miles of new track, and the change in location of 1½ miles of the public road, etc.

Contract has been let to DRAKE & STRATTON, Pennsylvania Bldg., Philadelphia, for double tracking this system in Wayne County, Ind., for a distance of 20 miles. Other contracts will be let for double-tracking through Henry, Hancock and Marion Counties. Estimated cost of the Wayne County contract is $2,000,000.

SHAW & SOUTHWESTERN.—Charter has been granted to this company in Mississippi to build from Shaw, Miss., in Bolivar County, southwesterly through timber lands via Busey to Greenville, Washington County, where connection is to be made with the Delta Southern, a branch of the Southern Railway. Right-of-way has been secured. It is planned to begin work during the early autumn. There will be a small amount of trestle work and one bridge over Bogue Phalia at Busey. Capital, $50,000. J. C. Walker is Pres., Shaw. Noted on June 24.

VERA CRUZ & ISTHMUS.—This company, it is stated, is preparing to build several important branch lines. This road is owned outright by the Mexican Government, but is not operated as a part of the Government merger system. It runs between Vera Cruz and the Isthmus of Tehuantepec, connecting with the Tehuantepec National R. R. at Santa Lucrecia, and has a branch line running from Tierra Blanca to Cordoba, connecting at the latter place with the Mexican (Vera Cruz) Railway. The Government has made provision for building branch lines to agricultural and industrial centers which are now far removed from railroad transportation facilities. One of the more important of these proposed branch lines will run to the city of Oaxaca, a distance of about 125 miles; another will be built to the head of navigation of the Papulapam River, where a large amount of traffic already awaits an outlet to the markets of the country; a third branch line will run to San Andres Tuxtla, situated in the heart of the richest tobacco growing region in Mexico; another will be built into the Valle Macional, a productive agricultural region. The Vera Cruz & Isthmus R. R. has been practically reconstructed during the last five years at an expense of about $5,000,000. W. F. Borrowe is Engr., Tierra Blanca, V. C., Mexico.

ELECTRIC RAILWAYS.

DAYVILLE, CONN.—The House of Representatives has passed a bill which incorporates the Attawaugan St. Ry. Co., an independent trolley company which is chartered to build a line from Dayville, through Attawaugan, Ballouville and Pineville to Daniels Factory Village, in the town of Killingly, and also from Attawaugan to Alexander's Lake.

MERIDEN, CONN.—Plans are under way for construction of the Meriden, Middletown & Guilford Ry., which will connect the towns named in its title. Charles E. Jackson and Joseph Merriam, of Middletown; A. H. Augur, of Middlefield, and James H. White, Eugene L. Hall, C. F. Rockwell and Francis Atwater, of Meriden, are named as directors.

WAYNESBURG, PA.—The Interstate Interurban Railway Co. has been chartered to build an electric line in West Virginia and Pennsylvania. Capital, $8,400. The incorporators are W. J. Sheldon, McKeesport, Pa.; J. C. Sheldon, Buffalo, N. Y.; T. H. Shannon, R. B. Blair and R. B. Chalerol, of Waynesburg

LYNCHBURG, PA.—We are officially advised that the Peoples Improvement Co. will let construction contracts during July or August for an extension one mile long to Fairview Heights. R. J. Hughes, P. O. Box 81, Lynchburg, is Pres. Noted on May 27.

SALISBURY, MD.—The Wicomico Elec. & Power Co. plans to build an electric railway about 30 miles long, from Salisbury to Hebron, Quantico, Wetipquin, Tyaskin, Bivalve and Nanticoke. Power plant will be located at Salisbury. Capital stock, authorized, $200,000. M. V. Brewington is Pres.; L. W. Dorman, First Vice-Pres.; H. J. Messick, Second Vice-Pres; Mark Cooper, Secy.; W. M. Cooper, Treas.; J. D. Price, Gen. Mgr., all of Salisbury. Noted on Feb. 25.

WASHINGTON, N. C.—Construction probably will be started soon by the Washington Investment Co. on its proposed 4-mile line in Washington. Capital stock, $100,000. W. E. Jones is Pres. and Gen. Mgr.; Isaac Buck, Vice-Pres.; George A. Spencer, Secy. and Treas., all of Washington.

GOLDSBORO, N. C.—The Goldsboro Traction Co. plans to build an extension to Swan Springs and Whitehall, which will be about 15 miles long. E. T. Oliver is Pres. and Gen. Mgr., Goldsboro.

CHATTANOOGA, TENN.—The Mountain Ry. Co., recently incorporated, is having surveys and plans prepared by the Cushman-Fairleigh Engineering Co., James Bldg., Chattanooga, for an inclined railway from Mountain Junction to a point near the Lookout Mountain House. D. J. Duncan, Lookout Mountain, Tenn., is interested. J. V. Williams, Temple Court, Chattanooga, is Atty. The incorporators are Boyd Thompson, Charles M. Fox, S. B. Strang, J. S. Fletcher and E. S. Myers.

LOUISVILLE, KY.—The Louisville & Eastern R. R. Co. has been authorized to issue $237,624 of receiver's certificates for completing an extension to Shelbyville, Ky., 22 miles long. Henry Glover is Receiver, Paul Jones Bldg., Louisville. J. B. Walker is Ch. Engr.

DAYTON, OHIO.—The Dayton & Xenia Transit Co. has been bought by a company representing the bondholders for $580,000. It is announced that the line will be extended from Xenia to Jamestown and Washington Court-House. Company will be reorganized under the title of the Dayton, Springfield & Xenia Southern Ry. Co. C. J. Fernesding, 125 South St. Clair St., Dayton, is Gen. Mgr.

TOLEDO, OHIO.—The Toledo Urban & Interurban Ry. Co. is making survey for the proposed extension between Findlay, Ohio, and Kenton. U. K. Stringfellow is Engr.-in-Charge, Findlay.

CLEVELAND, OHIO.—The directors of the Cleveland, Barberton, Coshocton & Zanesville Ry. Co. have authorized an issue of $6,000,000 of bonds, the proceeds to be used in building an electric railway from Cleveland to Zanesville, via Elyria, Barberton, Orrville, Millersburg and Coshocton. J. J. Breitinger, Cleveland, is Pres. Noted on Oct. 29, 1908.

LOGANSPORT, IND.—Contracts will be let soon, it is expected, by the Logansport, Frankfort & Indianapolis Traction Co. for building its line from Logansport to Frankfort, via Deer Creek, Young America, Burlington, Michigantown, Carroll and Middlefork, about 40 miles. At Frankfort connection will be made with the lines extending into Indianapolis. A. A. Newer, Logansport, is interested.

SPRINGFIELD, ILL.—The Springfield, Beardstown & Quincy Ry. Co. will let contracts soon for building between Quincy and Springfield. W. J. Gates is Vice-Pres.

CHICAGO, ILL.—The Chicago, Fox Lake & Lake Geneva R. R. Co. probably will commence construction soon on its proposed electric railway which is to connect River Grove, Franklin Park, Riverview, Desplaines, Fox Lake and Lake Geneva, 70 miles. M. B. Louis, Vice-Pres., 108 La-Salle St., Chicago.

SPARTA, WIS.—We are officially advised that the Sparta & Melrose Elec. Ry. & Power Co. has awarded contract for grading and bridging first 15 miles of its line to BROGAN & HAYES, Green Bay, Wis.; three miles of grading are completed. Balance of work will be contracted for about Aug. 1. This line will be 26 miles long, extending from Sparta northeast to Angelo and Trout Falls, thence northwest to Cataract and Melrose, Wis. There will be a 450-ft. bridge across Black River. Surveys are made and right-of-way and capital are secured. Noted fully on June 3. J. N. Braun is Pres., 402 American National Bank Bldg., St. Paul, Minn.; C. Oehler is Ch. Engr., Sparta.

WALLA WALLA, WASH.—Surveys are being completed by the Washington & Oregon Traction Co. for its proposed electric railway which will run from Walla Walla, Wash., via Weston, Athena and Adams, Ore., to Pendelton, Ore., 50 miles. W. S. Matthias is Gen. Mgr., 607 East Main St., Walla Walla. Company is in the market for supplies.

COBALT, ONT.—The Nipissing Central Ry. Co. has let contract for building this line which is to run from Cobalt to Haileybury, Ont., to the NOVA SCOTIA CONSTRUCTION CO., Sydney, C. B.

LIGHT AND POWER PLANTS.

(denotes that this work is advertised in Engineering News.)*

NORTH ADAMS, MASS.—Preliminary partial plans for erection of the proposed steel structure power-house of the North Adams Gas Light Co., owned by the Massachusetts Lighting Co., are on file in the City Engineer's office. Some excavation work has been started and within a very short time work will be started on the building, which, with machinery and other changes to be made, will aggregate an expenditure of $100,000 or more. Owing to the fact that the motors will be changed, it will be necessary to change all of the power motors in the city which are operated by power from the plant. This will for the most part be done at the expense of the company, which will replace all comparatively new motors with new ones of a different style and the older motors will be replaced with new ones on such terms as the company may be able to arrange with the individual consumers. Frank S. Richardson is Supt.

BOSTON, MASS.—Bids were received as follows on July 10 by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Washington, D. C., for installing piping in the central power plant, Navy Yard, Boston: Walworth Construction & Supply Co., 100 Pearl St., Boston, Mass., $11,698 and $11,323; William H. Gallison Co., 36 Oliver St., Boston, $15,819.65; Charles H. Sanborn, 16 Post-Office Sq., Boston, $16,089 and $15,769; Walworth Construction Co., 132 Federal St., Boston, $15,373 and $9,633; Malcolm W. Hill Co., 1503 Sansom St., Philadelphia, Pa., $16,700; Evans, Almirall & Co., 281 Water St., New York, N. Y., $15,277; M. W. Kellogg Co., 50 Church St., New York, N. Y., $15,232; Lumsden & Van Stone Co., 71 High St., Boston, $13,368; John W. Danforth Co., 227 Colorado Bldg., Washington, D. C., $16,200.

WATERBURY, CONN.—The Boston "Transcript" states that the Connecticut Co., controlled by the New York, New Haven & Hartford R. R. Co., is planning to erect a power station to supply current to the trolley systems of this city, Bridgeport and New Haven and their suburban connections. It is understood that the plant will cost from $400,000 to $500,000. The site favored is on the Naugatuck River in this city, and an application has been made to the Board of Aldermen for permission to dam the river near the present distributing station of the company. In some respects the proposed power plant will be similar to that at Berlin, Conn., but the amount of power created will have to be greater. It is expected to be all of two years before the new plant is ready for use, though its construction will be begun as soon as possible, another site being chosen if permission for that in Waterbury is refused. J. K. Punderford, New Haven, Conn., is Gen. Mgr.

SYRACUSE, N. Y.—The contract for electric light feeders and connections for the various buildings at the Onondaga County Home has been awarded to EDWARD T. MOORE, of Syracuse, at $4,100. F. H. Wood is County Purchasing Agt.

NEW YORK, N. Y.—Bids were received on June 28 by C. B. J. Snyder, Supt. School Bldgs., Dept. of Education, for alterations and additions to electric equipment in schools in Bronx Boro. Contracts were awarded as follows: School No. 4, to E. J. DUGGAN, 1133 Broadway, at $3,779; School No. 27, to T. FRED JACKSON, INC., 94 John St., $3,267, and School No. 36, to NEW YORK CONSTRUCTION CO., 1328 Broadway, $555. For installing electric equipment in Girls' High School, Boro. of Brooklyn, T. FRED JACKSON, INC., 94 John St., New York, at $18,995.

NEW YORK, N. Y.—Bids were received as follows on July 10, by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing one 1,000 and two 1,500-KW. turbo-alternators for the Navy Yards at New York, Boston and Philadelphia: Westinghouse Machine Co., 165 Broadway, New York, N. Y., $64,750; General Electric Co., Schenectady, N. Y., $77,417 and $76,008; Allis-Chalmers Co., Milwaukee, Wis., $61,736.

ALLENTOWN, PA.—All bids received June 23 by J. S. Troxell, Clk. Co. Comrs., at Allentown, for furnishing and installing all machinery and appurtenances for an electric light and power plant at the County Home at Wescoesville have been rejected, all being higher than the engineer's estimate, which is $9,900.

TOWANDA, PA.—Melkelham & Dinsmore, of New York, N. Y., are interested in a project to build a dam across the Susquehanna River at Towanda, it is stated. The cost of the dam is estimated at $1,000,000, and electricity will be generated for distribution in this section of the state. About 15,000 HP. will be developed.

PHILADELPHIA, PA.—At a meeting of the Board of Directors of the Philadelphia Rapid Transit Co. held June 21, extensions and improvements to the power station of the company at 33d St. and Market St. were decided upon, which will involve an expenditure of about $225,000. The purchase of a 600-KW. Westinghouse exhaust steam turbine was authorized for the above-named station, and $100,000 was appropriated for the foundation for an extension of the power-house on North Delaware Ave.

PHILADELPHIA, PA.—DOYLE & CO., 1519 Sansom St., Philadelphia, will start work at once for the erection of an 11-story power house for the proposed Curtis Building, on the south side of Sansom St., west of Sixth St., which is estimated to cost $500,000. The structure, which was designed by F. C. Roberts & Co. and Edgar V. Seeler, Real Estate Bldg., will measure 83.6 × 29 ft.

PHILADELPHIA, PA.—Bids were received as follows on July 10 by R. C. Hollyday, Ch. of Bureau of Yards and Docks, for furnishing motor generator sets, exciters, switchboard, etc., at the U. S. Navy Yard, Philadelphia: Allis-Chalmers Co., Milwaukee, Wis., $18,125; General Electric Co., Schenectady, N. Y., $19,700 and $19,200; Westinghouse Electric & Mfg. Co., 121 East Baltimore St., Baltimore, Md., $22,339; Western Electric Co., 460 West St., New York, N. Y., $10,710.

HAWKINSVILLE, GA.—J. B., McCrary & Co., Empire Bldg., Atlanta, Ga., have been engaged to prepare plans for the proposed municipal electric light plant. Contracts for construction of plant will be awarded soon.

CAMP HILL, ALA.—It is stated that Edgar B. Kay, of the engineering department of the University of Alabama, University, Ala., has been engaged to prepare plans for the proposed municipal electric light plant, for which $10,000 in bonds was recently voted. Power for the plant will be secured from a hydro-electric plant on Sandy Creek or from Dadesville, Ala.

BINGHAMTON, TENN.—Plans are being made by the Binghamton Light & Power Co. to double the boiler and generator capacity of its plant by September, 1909. W. M. Tucker is Mgr.

CYNTHIANA, KY.—Bids are asked by W. M. Moore, Chn. Finance Com., until Aug. 2, for lighting the streets, alleys and other public places for a term of six or ten years beginning April 1, 1910, with 40 or more arc lamps; bids will be received at the same time for an incandescent-lamp system requiring 90 or more 40-cp. lamps under specifications now on file in the office of the City Clerk. Address W. W. Van Deren.

INDIANAPOLIS, IND.—We are officially advised that bids were received by the Board of Public Works on July 2 for the electric wiring and conduits for the new City Hall. George M. Brill is Consult. Engr., 204 Dearborn St., Chicago, Ill.; Rubush & Hunter, Archs., American Central Life Bldg., Indianapolis. The contract was awarded on July 7 to THE HATFIELD ELECTRIC CO., 36 South Meridian St., Indianapolis.

GRAND RAPIDS, MICH.—VAN DENBERG & HURLBURT have secured the contract for structural steel for the proposed plant of the Grand Rapids & Muskegon Power Co.

FORT ATKINSON, WIS.—At a recent meeting of the Board of Directors of the Fort Atkinson Gas Co., Foster, of Jefferson, was elected Pres. increased N. D. M. Bradt, resigned. The company has secured the services of F. N. Pe... w. of Fox Lake, as Gen. Mgr. The comp... is nearly ready to start work on the ... construction of its plant. Mr. D. G. Stroe... Secy.

TRAPPE CITY, WI... The Wisconsin River Traction & Power ... has begun operations preliminary to co... action of a dam at Trappe City, it is rep...

SHERIDAN, WYO.—J... ienry, Pres. of the Southern Colorado P... & Ry. Co., has made satisfactory arrang... ns for the purchase of the Sheridan ... ric Light Co., and plans will be prepa... once to erect a power-house. H. V... ugh, Arch., is working on the plans. ... Henry's headquarters are in Trinidad, ...

CLINTON, MO.—Bids w... be received until July 17 by the Board ... Public Works for furnishing and deliv... for a period of one year electric watt... ers and transformers. J. H. Kyle is ...

*GREENVILLE, TEX.—... are asked by Joseph F. Nichols, Mayor ... til noon, July 27, for constructing a ... and power plant here. The J. W. M... Co., Houston, Tex., are Engrs. Specifi... are on file at the offices of Engineering News, New York and Chicago.

CLEBURNE, TEX.—Bids probably will be received this month for improvements to the plant of the Cleburne Water, Light & Ice Co. Cost, about $30,000. John B. Hawley, Consulting Engr., Ft. Worth. A. L. Chase is Receiver, Cleburne.

BLACKWELL, OKLA.—We are officially advised that Burns & McDonnell, Engrs., Scarritt Bldg., Kansas City, Mo., have prepared plans for water-works improvements and an electric lighting plant for which bonds have been voted for $80,000.

BOULDER, COLO.—Gove & Walsh, Archs., McPhee Bldg., Denver, Colo., have completed plans for the power-house and two additions to the Hale Scientific building at the University of Colorado, Boulder. The contract for the work has been let to STOCKER & FRASER, of Denver, for $85,000.

CANON CITY, COLO.—The Royal Gorge Power Co., capitalized at $2,000,000, by G. A. Taft, F. M. McMahon, R. E. Ellison, K. C. Schuyler and C. Spiess, will develop the power systems filed on by the Webster Park Canal & Power Co. and the Grape Creek Pipe Line & Power system, according to the Denver "News." The filings made in this county by G. A. Taft and associates provide for a reservoir to hold 2,150,000,000 cu. ft. of water, to be located 1,000 ft. higher than the Royal Gorge at the railroad grade. The dam, with intake canal and outlet, will cost $5,000,000 and will be located in a natural basin in Webster Park, south of the gorge. It is proposed to take 1,200 cu. ft. of water per second from the Arkansas River at Texas Creek and conduct it through a canal 10 ft. deep, 16 ft. at bottom and 36 ft. at top; it will be 13 miles long and will supply the reservoir. Three dams will be required to impound the water, being 40, 70 and 80 ft. in height. The outlet canal will be 4½ miles long, having a depth of 10 ft. and a width of 40 and 60 ft. at the bottom and top, respectively. The canal is to lead the water at a grade of 750 ft. in 1,250 ft. to a steel pipe line 12 ft. in diameter, where it will fall from a great height to a series of wheels for generating electric power, and then flow again into the Arkansas River east of the Royal Gorge. The Grape Creek line will have a length of 18 miles and divert the waters of the creek to a 4-ft. steel pipe line from a point below the De Weese-Dye reservoir to the intake of the De Weese-Dye ditch, where a similar power generating plant will be located. It is the purpose to sell this power to any municipality or company, also to convey it to the counties of El Paso and Pueblo, where stations will be erected for pumping the underflow from the eastern slope of the range. The estimated cost of the Grape Creek project is $1,000,000.

ELLENSBURG, WASH.—Bids will be received until July 19 for furnishing the city with increase of power and improvements, etc., of the electric light plant, also machinery and appliances for carrying out the improvement. W. B. Leverich is Mgr.

NORTH YAKIMA, WASH.—We are officially advised that it is proposed to construct a 10,000-HP. hydro-electric plant on west side of Yakima River in Moxie Valley. The canal will be ten miles in length. Cost, about $500,000. A. N. Mougin, North Yakima, is interested.

METHOW, WASH.—It is stated that plans are being made to develop the water-power of the Methow River in Okanogan County for the purpose of furnishing electricity for lamps and motors in the small towns in the county and for operating the pumps for irrigating thousands of acres of land by the Columbia Water Power Co., of which Samuel Berry, J. B. Valentine and Sidney Berry, of Spokane, Wash., are interested. The present plans include the construction of a dam on the Methow River, about eight miles from its mouth, at a cost of $25,000. From the dam a flume about a mile in length will be extended down the river, where a power plant will be erected at a cost of at least $50,000. Transmission lines will be erected from the power-house to Bridgeport, Brewster, Pateros, Methow and other towns in this vicinity to distribute electricity for lamps and motors for irrigation purposes.

BREMERTON, WASH.—Bids were received as follows on July 10 by R. C. Hollyday, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing piping, pumps, condensers, heaters, etc., in the central power plant, Navy Yard, Puget Sound, Wash.: D'Olier Engineering Co., 121 South 11th St., Philadelphia, Pa., (1) $57,950, (2) add $500, (3) add $2,830, (4) $54,950; Engineering Co-

poration, 228 Arcade Annex, Seattle, Wash., (4) $80,700, deduct $3,000, add $5,800, add $2,400; Hallidie Machinery Co., 122 King St., Seattle, Wash., (1) $100,419, (2) add $432, (3) add $5,718, deduct $325, (4) deduct, $2,485, deduct $2,695, add $125; Pacific Engineering Co., 335 Burke Bldg., Seattle, Wash., (3) add $5,621, (4) $74,555, add $862, add $1,045, add $191, add $495, add $135; Walworth Mfg. Co., 132 Federal St., Boston, Mass., (1) $78,890, (2) $78,890, (3) $80,460, $78,[illegible], (4) $2,873; Chas. C. Moore & Co., 99 First St., San Francisco, Cal., (1) $81,825, (3) $1,143; Evans, Almirall & Co., 28 Water St., New York, (1) $68,798, (2) no difference, (3) $2,300, (4) $6,700; De Laval Steam Turbine Co., Trenton, N. J., (4) $1,710, $2,[illegible] $1,200; M. W. Kellogg Co., 50 Church St., New York, (1) $66,500, $66,000, (2) $[illegible], (4) $68,000, $67,200, (5) add $300.

OAKLAND, CAL.—The Central Oakland Electric Light & Power Co. has filed an application with the Board of Public Works for a permit to erect a steel frame building on the northeast corner of First and Alice Sts. for an electric light and power house to cost $15,000.

SALMON, IDAHO.—R. L. Edwards, of the firm of Brown & Edwards, Mining Engrs., who is manager of operations at the Kittie Burton Gold Mines Company, of Ulyses, has announced that the Kittie Burton owners contemplate the erection of a hydro-electric power plant to furnish power for operating the mill, light plant and air compressors.

MOOSE JAW, SASK.—Bids will be received by John D. Simpson, City Clerk, until 8.30 p. m., July 18, for the supply of one 50-light constant current transformer or regulator with 35 arc lamps and suitable switchboard, a contract for one year's supply of wattmeters and transformers.

BRIDGES.

(denotes that this work is advertised in Engineering News.)*

*SEBEC, ME.—Bids are asked until noon, Aug. 28, by Paul D. Sargent, State Comr. Highways, Augusta, Me., for building a highway bridge over Sebec Stream, in Sebec Village. Proposals will be received separately on either or all of the following items: First—For a single span steel structure, 176 ft. c. to c. of end bearing; second, for a two-span steel structure, each span being 87 ft. c. to. c. of end bearings; third, for the masonry for either of the above structures; fourth, for a concrete arch bridge. The bidder to name a lump sum for the entire job complete on a design to be furnished by the bidder.

SOUTHAMPTON, MASS.—Bids were opened June 22 by the Massachusetts Highway Commission, Boston, for constructing a steel concrete beam bridge on the state highway in the town of Southampton. Contract has been awarded to the P. A. BREGLIO CONTRACTING CO., Springfield, at $6,670.

HARTFORD, CONN.—The Senate has passed the bill providing for an appropriation of $500,000 for the construction of a bridge between Old Saybrook and Old Lyme.

LONG ISLAND CITY, N. Y.—The Municipal Art Commission has approved plans for a structure by the Long Island R. R. Co. for carrying four tracks of its Maple Grove cut-off west of Lefferts Ave., in the Second Ward, Boro. of Queens, to cost $20,000.

SYRACUSE, N. Y.—The Board of Contract and Supply has awarded the contract for constructing a concrete bridge over Onondaga Creek, at Tallman St., to C. J. SULLIVAN, 126 South Clinton St., at $8,016.

BUFFALO, N. Y.—Contract has been awarded to J. W. DWYER & SON, at $6,348, for constructing substructure of River St. bridge over Slip No. 11.

LINDEN, N. J.—Bids are asked by the Board of Freeholders, Elizabeth, until 2.30 p. m., July 22, for construction of new bridge over West Brook, at Henry St., Linden, N. J.

WASHINGTON, PA.—The County Commissioners have let the contract for the construction of five bridges in various parts of the county to the PENN BRIDGE CO., of Beaver Falls. The total cost of construction, not including the masonry work, will be $9,618. Noted on July 1.

LOCK HAVEN, PA.—Bids are asked until 1.30 p. m., July 23, by the Commissioners of Clinton County for the furnishing of steel girders, the placing of the same on the bridge and the laying of a plank floor (the Commissioners to furnish the plank) for the Castanea County bridge over Bald Eagle Creek in Castanea Township.

ELLWOOD CITY, PA.—It is planned to build a bridge over Beaver River, below Rock Point. The Board of Trade is interested.

SEWICKLEY, PA.—Bids were received on July 1 at the office of the Commissioners of Alleghany County, at Pittsburg, for the construction of a highway bridge of cantilever type across Ohio River at Sewickley as follows: Superstructure: American Bridge Co., of New York, $385,000; McClintic-Marshall Construction Co., $397,900; King Bridge Co., $408,000; FORT PITT BRIDGE CO., Pittsburg, $372,400 (awarded contract); Pennsylvania Steel Co., $444,000, and Penn Bridge Co., $381,180. Substructure: Contract for substructure awarded to ADAM LAIDLAW & CO., Pittsburg, at $98,907. Totals of other bids: Dravo Contracting Co., $137,845; Morrison Bros Co., $145,985; Jerry L. Poli & Co., $148,001; Pneumatic Caisson Co., $151,483, and Drake & Stratton Co., $142,785. J. G. Chalfant is County Engr., Pittsburg. Noted in detail on June 17.

WILMINGTON, DEL.—It was announced that the Board of Park Commissioners has practically granted the right-of-way asked for by the Baltimore & Ohio R. R. Co. for the erection of a stone viaduct across Brandywine Creek here. All that remains for the permission to become effective, it is stated, is the preparation of papers making it a matter of record, according to the Baltimore "Sun." The viaduct, which will have four tracks, will cost about $500,000, and will replace the present two-track iron bridge. The latter structure will be turned over by the railroad company to the county for use by pedestrians and vehicles. Work on the viaduct is expected to begin soon.

BARBOURSVILLE, W. VA.—Bids were received on July 8 by F. F. McCullough, Clk. County Court, for building a steel and iron superstructure for a highway bridge over the Guandotte River at Barboursville. The work consists of four steel towers approximately 15 ft.; one through span 220 ft. C. C. pins; one deck span 36 ft. long; one through span 60 ft. long; three girders span 36 ft. long. Maupin Engineering Co. are Engrs., Huntington. The lowest bid was submitted by the Brackett Bridge Co., at $13,395 for wood floor or $15,900 for concrete floor. As bids exceed the engineer's estimate, they may be rejected.

ALBANY, GA.—The Commissioners of Dougherty County plan to replace all wooden bridges with iron or concrete spans.

*COLUMBUS, OHIO.—See "Ohio," under Railways.

LORAIN, OHIO.—The Board of County Commissioners will receive bids until July 15 for constructing a steel bridge, and also a concrete bridge.

FINDLAY, OHIO.—Bids are asked until noon, July 30, by the Commissioners of Hancock County for construction of a reinforced bridge across the Philip Heldman ditch.

TOLEDO, OHIO.—Bids were received on July 1 by the Board of Public Service, Reynold Voit, Secy., for a reinforced-concrete arch bridge, except lift draw, with necessary foundations, abutments, piers, etc., over the Maumee River at Cherry St. The following are the bidders and totals: (A) the Foundation Co. and James O. Heyworth, New York; (B) P. J. Carlin Construction Co., 16 East 23d St., New York; (C) the Pneumatic Caisson Co., Troy, N. Y.; (D) the Standard Contracting Co. and the Central Dredging Co., Cleveland, O.; (E) the C. H. Fath & Son Construction Co., Cleveland. On alterative design, work complete, including all items: (A) $897,777. On engineer's design: (B) $829,084; (C) $820,219; (E) $819,788. On engineer's design substituting corrugated for reinforcing (at price per pound bid on same) or for same, lump sum: $777,077 each. On alternative design, including removal of old bridge to temporary site, and all other items bid upon: (D) $657,218. On alternative design, including construction of temporary bridge, except removal of old work: (D) $575,078. For removal of present bridge to temporary site: (D) $34,000. On alternative design as per accompanying blue prints steel construction: (E) $423,000. Time to complete first half of bridge, ready for the paving and the bascule girders: (A) 12 months; (B) Dec. 1, 1910; (C) Nov. 1, 1910; (E) two years. Time to complete entire contract: (A) 8 months after opening first half; (B) Sept. 30, 1911; (C) Nov. 1, 1911; (D) July 1, 1913; (E) three years. Noted last week.

CLEVELAND, OHIO.—Bids are asked until July 16 by the Board of Public Service for removal of a highway bridge on Cedar Ave., S. E., over Doan Brook, and for the construction of a new concrete and steel bridge at this site.

Bids are asked by the Board of Commissioners of Cuyahoga County until 11 a. m., Aug. 11, for construction of concrete bridge, Spencer Road, Rocky River Township.

The contract for the new $700,000 Denison-Harvard bridge has been let to the McCLINTIC-MARSHALL CO., of Pittsburg. The contract was let to this firm following the decision of the State Supreme Court that the County Commissioners had no right to let the contract to the King Bridge Co.

ZANESVILLE, OHIO.—Bids are asked until noon, Aug. 2, by L. E. Berelsford, County Audr., for material and labor for the erection of the substructure of a highway bridge at Moody's Crossing in Newton Township.

NEW PHILADELPHIA, OHIO.—Bids are asked until 1 p. m., July 19, by A. V. Donahey, County Audr., for furnishing the labor and materials and constructing a reinforced-concrete arched bridge, making the fill thereon and approaches thereto over the Tuscarawas River, in Warwick Township, near Tuscarawas, on the new road leading from Tuscarawas to Uhrichsville. Estimated cost, $35,498.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of County Commissioners, Mahoning County, until 11 a. m., July 26, for constructing a bridge in Berlin Township.

BLUFFTON, IND.—Bids were received by the Commissioners of Wells County on July 5 for construction of new plate girder, double 75-ft. span bridges across Salamonie River, in Jackson Township. O. D. Garrett is County Audr. Contract was let to the HACKDORN CONSTRUCTION CO., Indianapolis, at $7,577.

SOUTH BEND, IND.—The Board of Public Works will receive bids until 10 a. m., July 16, for the repair and painting of Sample St. and the Leeper Park bridges over the St. Joseph River.

MASON CITY, IOWA.—Bids were received by the Board of Supervisors of Cerro Gordo County at the office of A. S. Clark, County Audr., on June 29, for an 80-ft. skew-span reinforced-concrete bridge, one retaining wall, etc. Contract was awarded to the ADVANCE CONSTRUCTION CO., of Waterloo, Iowa, at $17,859.

TOPEKA, KAN.—We are officially informed that all bids received by the Board of County Commissioners of Shawnee County, Topeka, on July 2, for the construction of one 150-ft. span steel bridge were rejected.

YANKTON, S. DAK.—Bids are asked until 8 p. m., July 19 (erroneously noted last week as July 15), by Helen B. Russell, City Clk., for material and labor for constructing a steel reinforced concrete bridge across Rhine Creek, Burleigh St. Bridge to be 36 ft. long in the clear and 18 ft. roadway, with a 6-ft. sidewalk on the west side, height from bottom of pier foundation to road grade 24 ft., excavations for piers in mixed sand and loam, 8 ft., approximately 125 yds.

KANSAS CITY, MO.—James L. Darnell, City Engr., will prepare plans for concrete or stone bridge over Gooseneck Creek at Independence Ave., to cost about $5,000.

ST. LOUIS, MO.—See "Piers," St. Louis, Mo., under Miscellaneous Contracts.

HOUSTON, TEX.—Harris County will vote on Aug. 3 on issuance of $500,000 of bonds for bridge and road construction.

ARDMORE, OKLA.—Morgan Township, Carter County, has voted to issue $40,000 of bonds for bridges, culverts, road improvements, etc.

PAWHUSKA, OKLA.—Osage County will vote on Aug. 17 on issuance of $325,000 of bonds for construction of 88 bridges.

KRUPP, WASH.—The County Commissioners have granted the request for a new bridge to be built over Crab Creek.

NORTH YAKIMA, WASH.—The County Commissioners have decided to erect a bridge over the Yakima River near Byron.

OLYMPIA, WASH.—The County Commissioners are considering the question of constructing a new steel bridge across the Nisqually River.

PORTLAND, ORE.—Contracts for the erection of the new Madison St. bridge were awarded recently by the City Executive Board, the total cost being $423,312. The contract for the substructure was given to ROBERT WAKEFIELD, of Portland, at $81,465, and for the superstructure to the UNITED ENGINEERING & CONSTRUCTION CO., of Portland, at $321,600. Added to this is the cost of engineering, amounting to $20,157.

SAN JOSE, CAL.—Bids were received on June 24 by the County for a concrete and rubble stone bridge at entrance to Alum Rock Park. Lowest bidder was John Doyle, at $4,337.

Bids are asked until 11 a. m., July 19, for building a bridge over Murphy Creek; also for a bridge over Smith Creek.

PRINCE RUPERT, B. C.—The Grand Trunk Pacific Ry. Co. has awarded the contract for the construction of six steel bridges on the first section east to here to the CANADIAN BRIDGE CO., Walkerville, Ont. Price, $400,000.

WINNIPEG, MAN.—City has voted in favor of spending $400,000 for bridges. H. N. Ruttan is City Engr.

BUILDINGS.

(denotes that this work is advertised in Engineering News.)*

BROOKLINE, MASS.—It is proposed to construct a public library building in Brookline, of red Dutch sand-struck brick and buff Indiana limestone. The new building is to be placed on practically the same site as the present one, but owing to its greater size the front is to be somewhat nearer Washington St., according to the Boston "Transcript." The central portion of the building, which will be two stories in height, is to be 80 ft. wide on the front and 40 ft. high above the level of the first floor. The facade of this portion will have a central group of three large windows which light the central delivery room. On each side of these windows will be slightly projecting pavilions, between which on the second floor over the delivery room windows is to be an open loggia, with columns supporting the main cornice of the building. In these two flanking pavilions will be the two main entrances to the library. The central portion of the building will be flanked by wings, 53 ft. long, which will set back from the front central portion about 19 ft. The total length of the building is to be therefore 186 ft. The building will be heated by a hot water system with ventilation by means of a fan located under the front terrace which discharges warmed air into the principal rooms. An additional exhaust fan over the children's rooms is to be furnished to assist the ventilation of these rooms when they are fully occupied, this will not be needed except at such times. The Building Committee of the Library Trustees is composed of Desmond FitzGerald, Chn.; Dr. Leonard K. Storrs (ex-officio), Edward Standwood and Leslie C. Wead, R. Clipston Sturgis, 120 Boylston St., Boston, is Arch.

ELMIRA, N. Y.—We are officially advised that the plans for the proposed 6-story business block to be erected on the southwest corner of Lake and Water Sts., as prepared by J. H. Considine, Arch., 323 Carroll St., Elmira, have been accepted and the work of preparing the specifications and working plans are progressing. The building will be of a modern business design. It will have a frontage of 65 ft. on Water St., and 75 ft. deep toward the river bank. The design for the front on Water St., Lake St. and the river front will all be alike. The basement will be of concrete with foundations 10 ft. high and waterproof. In case of an overflow from excessive high water, large drainage pipes will be arranged to clear the basement. Estimated cost, $40,000. The structure will be of brick, stone and timber mill construction. Contracts will be let in August.

BUFFALO, N. Y.—Thomas W. Harris, Arch., Erie County Bank Bldg., has prepared plans for a 4-story and basement office building, 41 × 150 ft., of brick, terra cotta and structural steel, to be erected by the International Railway Co., at the corner of Main and Michigan Sts. Cost, $100,000.

BUFFALO, N. Y.—The D. H. Coplon Co. will erect a 2-story brick and steel business block for stores and offices at Broadway and Fillmore Ave. Details are not decided and architect not yet selected. Joseph Coplon is Mgr., 964 Broadway, Buffalo.

H. Osgood Holland, Arch., 417 Mutual Life Bldg., has prepared plans for a 3-story apartment house, 62 × 92 ft., of stone, brick and architectural steel construction, to be erected at 107 Oakland Pl. by Norris Morey, 209 Summer St.

The erection of a 4-story office building where the car barns of the International Railway Co. now stands at Main and Virginia Sts., is planned by the officials of the company. Construction will begin this summer. The building will cost about $100,000 and it is planned to centralize all the departments of the company under one roof.

BUFFALO, N. Y.—In the architectural competition for plans for the proposed Technical High School building to be erected on Broadway, Milnor and Potter Sts., Martin C. Miller, 620 Mutual Life Bldg., Buffalo, was the successful architect. The building will be of modern French architecture, three stories and basement in height, with a frontage of 234 ft. on Broadway and a depth of 236 ft., arranged to accommodate 1,200 students. The estimated cost is $411,000. Robert North, Arch., 1326 Prudential Bldg., was associated with Mr. Miller in the preparation of the drawings.

HAMBURG, N. Y.—The taxpayers of the village have voted to build a high school, three stories and basement, of brick and steel, to cost approximately $45,000. The School Board has authorized plans and bids will be called for at once.

ALBANY, N. Y.—F. C. Gillespie, Pres. of the Hampton Co., has announced the award of contracts for improvements shortly to be made at the company's hotel, "The Hampton," as follows: General contractor, A. E. STEPHENS, Binghamton, N. Y.; plumbing, JOSEPH P. MAGUIRE, Albany, N. Y.; heating, W. B. ARMSTRONG & CO., of Albany, N. Y. The work consists of constructing a grill room, two dining rooms, kitchen, engine room and 103 sleeping rooms with private baths. The proposed addition will be eight stories in height and will be of reinforced concrete and steel cage construction. Marcus T. Reynolds, 100 State St., Albany, N. Y., is Arch.

NEW YORK, N. Y.—We are officially advised that plans for the meeting-house and Sunday School of the Society for Ethical Culture, to be built at the southwest corner of Central Park West and 64th St., adjoining the Ethical Culture schools conducted by the same society at the southerly end of the block, have been filed by Robert D. Kohn, Arch., 170 Fifth Ave. The plans show that the assembly rooms, Sunday School, library and other parish rooms are to be placed in two stories above the auditorium proper. The building is to be 81 ft. in length on Central Park West, 100 ft. on 64th St., and about 85 ft. high. It is to have an exterior of white Bedford stone, very simple and dignified in character, and designed to correspond in the main cornice and base line with the adjoining building. The building will cost $300,000. The general contract has been let to MARC EIDLITZ & SON, 489 Fifth Ave.

George Fred Pelham, Arch., 597 Fifth Ave., has prepared plans for a 6-story 48-family flat, 150 × 87 ft., for the Raymore Realty Co., Joseph Wittner, 150 Nassau St., Pres., to be erected in the south side of 106th St., 225 ft. west of Amsterdam Ave., to cost $220,000.

Trowbridge & Livingston, Archs., 527 Fifth Ave., will prepare plans for a 5-story residence, 28 × 100 ft., for B. Sloane, 38 Wall St., to be erected at 41 East 65th St., costing around $70,000. The architects will have charge of construction.

E. A. Dennison, 475 Fifth Ave., has been commissioned to prepare plans for a 7-story brick and limestone cold-storage warehouse addition, 65 × 100 ft. (mill construction), to be erected at 30 Hall St., Brooklyn, for the Kings County Refrigerating Co. The architect will receive the figures, the estimated cost of which is placed at $100,000.

The general contract has been awarded to JOSEPH DICORSIA, 151 West 25th St., for an addition to the loft and store building, 29 East Twelfth St., for Mrs. J. Fitzgerald, 114 West 75th St. William C. Hazlett, 1123 Broadway, prepared the plans. The estimated cost is $65,000.

NEW YORK, N. Y.—We are officially advised that D'Oench & Yost, Archs., 289 Fourth Ave., have filed plans for a 12-story office and loft building for the Tilden Investment Co., Lotus H. Slawson, Pres., to be built at 105 to 111 West 40th St., between old Mendelssohn Hall and the new marble Union Dime Savings Bank on the corner of Sixth Ave. The building will be of brick, limestone and terra cotta in modified Gothic, with three tiers of large bays. It will front 80 ft., with a depth of 98.9 ft. on the east and 545 on the west. It is to cost $400,000. The contract has been let to the WILLIAM L. CROW CONSTRUCTION CO., 289 Fourth Ave., New York.

Alvin W. Krech, Pres. of the Equitable Trust Co., 15 Nassau St., will begin the erection soon of a new residence in the north side of 70th St., 73 ft. west of Madison Ave. Heins & La Farge and A. C. Jackson, 30 East 21st St., are completing the plans and will take figures on the general contract at once. The building will contain 5½ stories, 25 × 78 ft., and will cost about $70,000.

Ditmars & Brite, 111 Fifth Ave., are taking bids on the masonry and carpenter work for the loft building addition to be erected at 203-205 West 24th St., through to 25th St., for the Frammor Realty Co., 207 West 24th St. The National Cloak & Suit Co., 207 West 24th St., is the lessee. The building will measure 45 × 200 ft., containing eleven stories, costing around $200,000.

The John J. Hearn Construction Co., 500 Fifth Ave., builders, are receiving competitive sketches for an apartment house to cover a plot at the southeast corner of Riverside Drive and 114th St. The proposed building is to have twelve stories and will be of the highest type of fireproof construction, costing about $350,000. The owners are now taking figures on the excavations. The

selection of an architect is likely to be made within a few days.

Bids were received by Robert W. Hebberd, Comr. Dept. of Public Charities, on July 6, for providing all labor and materials necessary or required for the excavation, masonry steel and iron work, roofing and metal work, carpentry, electric work, heating and ventilating work, plumbing work and all other work (except certain kitchen, sterilizing and lighting fixtures, refrigerators and vacuum sweeping machinery), as set forth in the drawings and specifications for the construction and entire completion of a nurses' home building for the Children's Hospital, situated at the north end of Randalls Island, Boro. of Manhattan, the City of New York: George Hildebrand, 38 Park Row, New York, $137,400; J. & M. Moreland, $170,780; Thomas B. Leahy Building Co., $151,253; Luke A. Burke & Sons, $157,000; D. J. Ryan, $157,987.

NEW YORK, N. Y.—Bids are asked by Nicholas J. Hayes, Fire Comr., until 10.30 a. m., July 26, for furnishing all the labor and materials required for repairs to the quarters of Engine Company No. 11, at 437 East Houston St., and to the quarters of Engine Company No. 29 at 160 Chambers St., Boro. of Manhattan; for furnishing all the labor and materials required for repairs to quarters of Engine Company No. 73, corner of Prospect Ave. and 152d St.

NEW YORK, N. Y.—Bids were received as follows by John J. Barry, Comr. Dept. of Correction, on July 8, for furnishing all the work and materials required for the erection and completion of a 2-story and cellar brick fireproof industrial building on Harris Island, New York City: John T. Brady & Co., 103 Park Ave., New York, $58,840; Albert Winternitz, 237 East 72d St., New York, $61,600; John F. Walsh Construction Co., 136 Charlton Ave., $65,000; William Horne Co., 71 West 132d St., New York, $64,400; George Hildebrand, 38 Park Row, New York, $73,740; Lawrence J. Rice, 103 Park Ave., New York, $73,416; D. J. Ryan, $63,928; Hartman & Horgan, Ogden Ave. and 162d St., $72,637; Madison Building Co., 1 Madison Ave., New York, $68,697.

EASTVIEW, N. Y.—The Board of Supervisors of the County of Westchester have completed plans for the construction of a new almshouse at Eastview, in this county, and the plans have just been approved by the State Board of Charities. The estimated cost of the structure is $60,000. William C. Lawrence, Ardsley, Westchester County, is County Superintendent of Poor.

JAMAICA (L. I.), N. Y.—The congregation of the First Presbyterian Church is considering an offer of $40,000 made by the city for the church's property on Clinton Ave., near Fulton, where it is proposed to erect a Carnegie Library and an Administration Building.

KINGSTON, N. Y.—J. A. Wood, 120 Liberty St., New York, has prepared plans for a 5-story fireproof hotel, brick, stone and steel, 85 × 30 ft., for the Ulster County Hotel Co., to be erected at Kingston, at a cost of $75,000. Plans will be ready for figures by July 25. John S. Winne is Pres. and Mgr.

NEWARK, N. J.—The West Side Trust Co. has bought from the heirs of the Benedict Prieth estate the 4-story brick building southwest corner of High St. and Springfield Ave., 86 × 90 ft. When the lease expires the company will spend $50,000 in alterations, making a modern counting room, a directors' and other rooms.

It is expected that structural work will be started at once on an apartment house at Seventh and Roseville Aves., in the Roseville section of Newark. The building, as shown, will be four stories and basement. Limestone will be the exterior material up to the second story, where the brick work will begin. White limestone will be used in the trimming. There will be 24 apartments, varying in size from five to seven rooms and bath. Besides white limestone, iron work and terra cotta will enter into the exterior decorations, in balconies, window trimmings and ornamental cornices. There will be three main entrances, two on the Seventh Ave. side and one on Roseville Ave. William J. Burke is the owner, and Hurd & Sutton, of Newark, are Archs. The estimated cost is about $100,000.

JERSEY CITY, N. J.—Morrison & Carrier, Archs. and Engrs., 47 West 34th St., Manhattan, are preparing plans for Schackow & Cohen, of 284 Third St., for the construction of two apartment buildings on Mercer St. The specifications will call for tiled vestibules, and bath rooms, open plumbing, cabinet mantels, dumb waiters, gas fixtures and all modern improvements except heat. The cost of the buildings will be $60,000, and the plans are now ready for figures.

JERSEY CITY, N. J.—The Commercial Trust Co. has plans under way for the construction of an office building in Jersey City. The Trust Company now owns an 8-story structure opposite to the entrance of the tunnels and within 50 ft. of the Pennsylvania R. R. ferry slip. The new building will be 15 stories, and will adjoin the older structure. It will have a frontage of 54 ft. on Exchange Pl. and will run back 80 ft. toward York St. It will extend over the roof of the older building a few feet. In construction it will be somewhat more elaborate than the older building, having a series of massive columns above the eighth floor.

PHILADELPHIA, PA.—A syndicate will erect a 15-story hotel on the northwest corner of Broad and Spruce Sts. The First Church of Christ, Scientist, occupies part of the site of the proposed building. The three adjoining Spruce St. properties are also included in the site. The hotel will be known as "The Franklin," and will cost $1,750,000. The contract for its construction has been awarded to JAMES G. DOAK & CO., 1420 Chestnut St., and they have invited estimates from sub-contractors for the work. The hotel will have a frontage of 117.5 ft. on Broad St. and 129 ft. on Spruce St., and will be of steel and concrete construction. Plans which were drawn by Henry Ives Cobb, 42 Broadway, New York, call for an ornate structure of brick and terra cotta and stone. The main entrance will be on Broad St., and will open into a lobby of Italian marble, in which mosaics and tiles will form an elaborate decorative scheme. A cafe and dining and reception rooms will be located along the lobby, where will be the main desks and exchange. In the rear an Italian garden will be constructed. The building will contain 411 rooms en suite and 200 bathrooms, the latter so arranged that there will be practically a bathroom for every two rooms. In the basement will be a barber shop, billiard rooms, servants' quarters and the kitchens. The mechanical and electrical equipment and the heating apparatus will be in the sub-basement. In the rear of the hotel a 10-ft. thoroughfare will run from Spruce St. to Manning St. The church building and dwelling houses now occupying the site of the new edifice will be demolished.

Plans for the erection of a 2-story parish house at 1608 to 1612 Thompson St. for St. Augustine's Protestant Episcopal (negro) Church are being prepared in the office of Churchman, Thomas & Molitor, Archs., North American Bldg. It will be two stories high and will measure 48 × 49 ft.

The engineering department of the Pennsylvania R. R. is preparing plans for the new station to be built at Columbia Ave. after the elevation of the Ninth St. tracks at that point. It will be of brick and two stories high. Alexander C. Shand, Philadelphia, is Ch. Engr.

BALTIMORE, MD.—We are officially advised that plans have been completed by Theodore W. Pietsch, Arch., American Bldg., for a moving-picture and vaudeville theater to be erected by the Wilson Amusement Co., at 8 and 10 North Gay St. and 418 East Baltimore St. The theater will cost about $50,000. The building will be an L-shaped structure, with the main entrance on Baltimore St., and the auditorium on the lot fronting on Gay St. The entrance will be through the building occupied by Jacoby's clothing store, which has been purchased and which will be remodeled into the most attractive fronts in the city. There will be a lobby 20 × 90 ft. in the main building, which will be 43 × 132 ft. The construction will be fireproof with steel and terra cotta floor arches. The seating capacity will be about 650. It is expected to be ready for occupancy Oct. 1. The contract has been let to HENRY L. MAAS, of Baltimore.

WASHINGTON, D. C.—Old St. Matthew's Church, corner 15th and H Sts., opposite the Shoreham Hotel in this city, which in February passed into the hands of John M. Parker, of New Orleans, and Charles H. Hall Davis, of Petersburg, Va., acting for the Southern Commercial Congress, has been deeded to the Southern Building Corporation, T. F. Schneider, of Washington, Pres., and John M. Parker, of New Orleans, Vice-Pres. A white marble office building ten or twelve stories high will be erected. This corporation has been organized for the express purpose of erecting the building as a home for the Southern Commercial Congress, as well as for revenue. The building and ground will cost $1,500,000.

WASHINGTON, D. C.—Bids are asked by R. C. Hollyday, Ch. of Bureau of Yards and Docks, until 11 a. m., July 31, for improvements to Building No. 41 at the Navy Yard, Washington. Specifications are on file at the office of Engineering News, New York.

FORT MONROE, VA.—Bids are asked by Capt. Ernest R. Tilton, Constr. Q. M., until 10 a. m., Aug. 2, for repairs and general alterations to three old buildings—Quarters 1, 3 and 50—at Fort Monroe, Va.

WINCHESTER, VA.—Bids were received as follows on July 12 by James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., for the construction of a post-office building at Winchester, Va.: George Leigh & Bro., Louisa, Va., $56,564; Glaize & Bro., Winchester, Va., $63,600; D. J. Phipps, Newport News, Va., $61,597; W. M. Seay, Lynchburg, Va., $55,875; King Lumber Co., Charlottesville, Va., $58,526; Jos. Seay & Co., Petersburg, Va., $54,400; Interstate Construction Co., Saginaw, Mich., $62,047; M. P. Wells, Philadelphia, $63,353; C. P. Howell, Clarksville, Va., $76,250; R. H. Richardson & Son, Hampton, Va., $63,936.

OXFORD, MISS.—Bids will be received until Aug. 2 by the Building Committee of the Board of Trustees of the Union of Mississippi for erecting a library building complete, 132 × 106 ft., semi-fireproof and of stone and terra cotta construction. Cost, $50,000. Harry N. Austin is Arch., Jackson. D. M. Kimbrough is Chn.

LOUISVILLE, KY.—The Congregation of the First Christian Church has purchased a site at Fourth Ave. and Breckenridge St. for the erection of an edifice to cost about $175,000.

McDonald & Dodd, Equitable Bldg., have completed plans and specifications for the building to be erected by the Louisville Country Club at a cost of about $80,000. Bids are to be asked at once.

SPENCER, IND.—The Commissioners of Owen County have employed J. T. Johnson & Co., State Life Bldg., Indianapolis, Arch., to draft plans for a court-house. Bids will be invited soon and work to commence Sept. 1.

PERU, IND.—The Commissioners of Miami County will ask for bids soon for the construction of an addition and improvements to the County Infirmary.

ANDERSON, IND.—Contract has been let to THOMAS FOY, of Kalamazoo, Mich., for the construction of a high school building. Price, $132,900.

INDIANAPOLIS, IND.—The Helen Realty Co., of this city, is preparing to ask for bids for the construction of a theater at the corner of New York and Illinois Sts.

Plans are being made upon which bids will soon be asked for the construction of two fire station houses. J. T. Elliott is Chn. Bd. of Pub. Wks.

INDIANAPOLIS, IND.—The School Board has awarded contracts for the construction of the West Morris St. school building to J. A. SCHUMACHER & CO., 818 East St. Clair St., at $52,400, exclusive of plumbing and painting, and for the East Tenth St. school building to HEINZMAN BROS., 42d St., at $42,130.

CHICAGO, ILL.—James Burne, Arch., Chicago Opera House Block, has designed four 3-story houses, 50 × 65 ft., to be erected for Richard Curran, on Washington Ave. and 63d St. They will have six apartments each, and will aggregate in cost to $60,000. They will have fronts of pressed brick, with stone trimmings, composition roof, steam heat, electric light.

John Flizikowski has made designs for a residence for Joseph Schafer. It will be located at Monticello Ave. and Courtland St. Designs show a 3-story building, measuring 24 × 56 ft. It will be built of brick and frame, with shingle roof, hardwood finish and floors, hot air heat, bath room and laundry fixtures, tile and mosaic work, etc. Cost, $50,000. Work will start soon.

A store building will be erected at Ashland Ave. and 48th St. from designs by John Duncan, Arch., 87 Washington St. The building will be 2 stories high, measuring 100 × 130 ft. It will have front of pressed brick with stone trimmings, composition roof, steam heat, electric light, tile and mosaic work, etc. Cost, $45,000.

CHICAGO, ILL.—We are officially advised that plans for the proposed home of the City Club, at 9 to 11 Plymouth Court, now under consideration by the members, show a 4-story and basement building. Pond & Pond, Steinway Hall, are Archs. The site, on which an option for a 99-year lease has been obtained, has a frontage of 50 ft. on the east side of Plymouth Court and a depth of 93 ft., with alleys on the north and east sides, and is a short distance south of Jackson Boulevard. The building will cost, it is estimated, about $60,000.

WHEATON, ILL.—A school will be built at Wheaton, Ill., for the School Board from plans and specifications by George W. Ashby, 185 Jackson Boulevard, this city. The building will be two stories high, measuring 80 × 100 ft. It will be built of brick and stone, with steam heat and ventilating system, electric wiring, etc. Approximate cost, $53,000.

PERU, ILL.—Plans have been completed by R. H. Richard, Arch., 134 Van Buren St., Chicago, Ill., for a hotel to be erected at Peru, Ill., for the Hotel Association of this city. The building will be three stories high, covering an area of 60 × 118 ft. It will be built of brick and stone, with composition roof, hardwood finish, steam heat, electric light, elevator and modern appliances. Cost, $50,000.

MADISON, WIS.—The Wisconsin State Board of Normal School Regents has commissioned Van Ryn & De Gelleke, Archs., 725 Caswell Block, Milwaukee, Wis., to prepare plans and specifications for a dormitory building to be erected at State Normal School, Superior, Wis., at a cost of $65,000. Also for minor improvements and additions at other normal schools.

FORT SNELLING, MINN.—Bids are asked by Capt. R. C. Crorton, Constr. Q. M., Army Bldg., St. Paul, Minn., until 11 a. m., July 27, for the construction, plumbing, heating, electric wiring and fixtures of an addition to post hospital at Fort Snelling, Minn.

MINNEAPOLIS, MINN.—Lowell A. Lamoreaux, Lumber Exchange Bldg., have been selected to prepare plans for an addition to the St. Barnabas Hospital, at Sixth St. and Tenth Ave., South, to cost about $60,000.

The congregation of Hennepin Avenue M. E. Church contemplates erecting an edifice on Tenth St. and Hennepin Ave., at a cost of about $203,000.

ABERDEEN, S. DAK.—G. B. Narregang contemplates erecting a 5-story, 74 × 100-ft. brick and stone apartment house at Lincoln St. and Seventh Ave., at a cost of $50,000.

ST. LOUIS, MO.—Articles of incorporation have been filed for the Bachelor Apartments Building Co., with a capital stock of $10,000, a company promoted and organized by the Nicholls-Ritter Realty & Financial Co. for the purpose of erecting a $50,000 3-story bachelor apartment house. The fourteen incorporators and largest subscribers to the stock of the new company are: E. Lansing Ray, James C. Campbell, John P. Boogher, C. McClung Thompson, Dr. Llewelyn Williamson, Dr. F. E. Woodruff, Dr. John Young Brown, Dr. Walter Baumgarten, M. I. Hoffman, R. F. Goodnow, Charles C. Nicholls, Jr., E. C. Cowen, W. W. Tilden and George Oliver Carpenter, Jr. The new apartment house will be located on the south side of Washington Boulevard, 330 ft. east of Taylor Ave., the lot being now vacant. The work is expected to be completed by the first or middle of November. It will be erected by the COWEN-QUILLIN CONSTRUCTION CO. The lot is 50 ft. front by 240 ft. deep. The building, 45 ft. wide and 136 ft. deep, will set back from Washington Boulevard 40 ft.. There will be 52 rooms in the building. It will contain 26 suites of two rooms to a suite. The exterior will be of red stock brick and terra cotta. The main entrance will be of tile and marble. The 52 rooms, every one of which will be outside, will be laid with hardwood floors, and the heating, lighting and ventilating will be of the most modern and improved type.

GONZALES, TEX.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Aug. 5, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring) of the U. S. post-office at Gonzales.

HOUSTON, TEX.—E. J. Russell, Chemical Bldg., St. Louis, Mo., has been selected to prepare plans for an auditorium-armory, to be erected in Houston by a company, including David Daly, E. J. Huston and others. Cost, $150,000.

HOUSTON, TEX.—The contract for the erection of the S. F. [illegible] building, which is to be a 16-story office, located at the corner of Main and Rusk [illegible] July 1 to the WILLIAM MILLER & SONS CO., 28 Federal St., Pittsburg, Pa., and they will begin the active work of construction as soon as the material can be placed on the ground. The excavation has been completed. Estimated cost, $600,000.

NORMAN, OKLA.—Bids are asked by the State Board of Public Affairs, Roy Hoffman, Chn., until noon, July [illegible] for the erection and completion of the administration building for the University of Oklahoma, to be built at Norman, in accordance with plans, specifications and details as furnished by Shepley, Rutan & Coolidge, Archs., Borland Block, Chicago.

DENVER, COLO.—Warren M. Baker, owner of the property on 18th St. between Welton and Glenarm Sts., will build thereon a 3-story hotel building to cost about $40,000.

A municipal hotel to cost $500,000, to be erected by the city of Denver under an arrangement by which owners of local hotel property may share in the profits, is planned by J. A. Ferguson.

T. P. Maloney recently began tearing down the old building at 1952 Broadway, where he will build a hotel to cost $40,000. This property adjoins the site where Erhard Mentz, proprietor of the Lindell Hotel at Tenth and Larimer Sts., will build a hotel of similar cost.

BOULDER, COLO.—See item under Light and Power Plants.

BELLINGHAM, WASH.—F. F. Moore, Arch., has made plans for a $40,000 church building for the Trinity Methodist Church and work is to be started on same within three or four weeks.

SPOKANE, WASH.—Alfred Jones, Mohawk Block, has completed plans for an $85,000 5-story brick building for the Standard Furniture Co. on Riverside Ave.

The Northwestern General Trading Co., Gale Smith, South 551 Spokane St., Pres., plans to erect a $60,000 building at Baldwin and Perry Sts.

SEATTLE, WASH.—The Sanitary Building Co. is planning to erect a 3-story brick market building to cost $40,000.

Bebb & Mendel, Archs., Denny Bldg., have completed plans for a reinforced-concrete warehouse to be erected by the Northern Pacific Ry. tracks to cost $400,000.

CORVALLIS, ORE.—Arrangements for the expenditure of half of Oregon Agricultural College's $210,000 appropriation for buildings are now about completed; $105,000 of the recent legislative appropriation will be available this year and will be spent in the erection of the central portion of the Agricultural Hall, and in the construction of the proposed armory.

OAKLAND, CAL.—Plans are now in the hands of Frank K. Mott, Mayor, for an 18-story City Hall and Hall of Justice building combined, to cost approximately $1,000,000. Plans were prepared by Dickey & Reed, Oakland, Archs. The plans and specifications call for white stone in its construction. It is planned to give the building a frontage of 140 ft., and to have the Police Department occupy the ground floors.

LOS ANGELES, CAL.—The erection at the southeast corner of Broadway and Eighth St. of an 8-story loft building at a cost of about $175,000 is contemplated by the Leasehold Co. The property is held by the Leasehold Co. under a 50-year lease, which was obtained three years ago. The property is owned by the Stoll estate. The President of the company is Lester L. Robinson, Vice-President of the Columbia Trust Co. The character of the building to be erected has not been decided definitely.

LOS ANGELES, CAL.—Dennis & Farwell, Currier Bldg., and Train & Williams, 254 South Broadway, Archs., have completed the plans for a 10-story structure which is to be erected by the Cotenant Co. at 627-631 South Broadway, to cost about $300,000.

SAN FRANCISCO, CAL.—Wright, Rushforth & Cahill, Archs., 571 California St., have completed plans for the $100,000 church building to be erected by the First Baptist Church on O'Farrell St., near Fillmore St.

SAN FRANCISCO, CAL.—The construction of quarters and barracks for officers and men at the Presidio and at Fort Winfield Scott is about to begin. Bids, which were opened in the office of the Constructing Quartermaster here a few weeks ago, have been returned from Washington with awards to the lowest bidders as follows: At Fort Winfield Scott PRINGLE, DUNN & MOSCRIP, 338 Pine St., will construct one set of quarters for four officers to cost $23,827; two single barracks, $65,554; four sets of quarters for two N. C. O., $19,356. At the Presidio, the GLOBE CONSTRUCTION CO., Chronicle Bldg., has been awarded the contract for the construction of three field officers' quarters at $30,699; six sets quarters for company officers, $47,466; two sets quarters for two company officers, $28,674. A supplementary agreement has been made with the same firm for the construction of one set of quarters at the Presidio for a company officer, at $7,911, and four sets quarters for two company officers, $57,348. The building will all have tile roofs with the exception of the field officers' quarters at the Presidio and the set of quarters for four officers at Fort Winfield Scott, which will have slate roofs.

SALT LAKE CITY, UTAH.—The Salt Lake Federation of Labor, A. H. Neiss, Pres., is to erect a 4 or 6-story building to cost about $100,000 as soon as final arrangements can be made.

OTTAWA, ONT.—Bids are asked by Napoleon Tessier, Secy. Dept. of Public Works, Ottawa, Ont., until 5 p. m., July 23, for constructing a building for refinery at the Royal Mint.

SASKATOON, SASK.—Preliminary plans are being arranged for the Board of Governors of Saskatchewan University, which will be erected here. The estimated cost of

the various buildings is about $1,000,000. David R. Brown, Canada Life Bldg., Montreal, Que., is preparing the plans.

LETHBRIDGE, ALTA.—J. McDIARMID & CO., of Winnipeg, Man., have been awarded the contract for the erection of the hospital here. Cost, $80,000.

NEW WESTMINSTER, B. C.—The contract for the erection of an insane asylum here has been awarded to the WESTHOLME LUMBER CO., of this city, at $369,000.

WATER SUPPLY—IRRIGATION.

(denotes that this work is advertised in Engineering News.)*

BARRE, VT.—We are officially advised that bids were received on June 29 at the office of Jas. MacKay, City Clk., of Barre, for construction of the Orange Brook reservoir. Contract has been awarded to JOS. LONG & CO., of Leominster, Mass., for $23,895. Lewis D. Thorpe is Consult. Engr., 46 Cornhill St., Boston. The cement, pipes and castings are furnished by the city. Reservoir will have a capacity of 42,000,000 gallons.

DUDLEY, MASS.—CHAS. N. TAYLOR, Wellesley, Mass., has been awarded contract for laying about seven miles of 6, 8, 10 and 12-in. c.-i. water pipe. F. L. Fuller, 12 Pearl St., Boston, Mass., is Engr.

WATERBURY, CONN.—Bids are asked until July 27 by the Board of Public Works for construction of foundation of dam for reservoir at the Wigwam.

GOWANDA, N. Y.—Bids were received on July 7 by the State Commission in Lunacy for the construction of a water storage reservoir, including piping and connections, at the Gowanda State Hospital, Gowanda. Lowest bidder was J. B. Hurley, Fredonia, N. Y., $8,500. Bids were also received for the furnishing and installation of three horizontal boilers at the same institution. The lowest bidder was the Erie City Iron Works, New York, $6,455. F. B. Ware is State Arch.; T. E. McGarr is Secy. of the Comn.

EAST SALAMANCA, N. Y.—We are officially advised that the East Salamanca Water Co. contemplates an extension of its water mains, about 5,300 ft., and the construction of a reservoir. Plans and specifications are being prepared by E. J. Govern, Granite Bldg., Rochester, N. Y.

NEW YORK, N. Y.—Bids are asked until 2 p. m., July 21, by the Department of Water Supply, Gas and Electricity for furnishing, delivering and laying high-pressure fire service mains and appurtenances in several streets.

BROOKLYN, N. Y.—The Board of Estimate, New York, has appropriated $623,356 for an additional supply of water for fire protection in the Bushwick, Stuyvesant, Broadway-Eastern and Park Slope Districts of Brooklyn.

SENECA FALLS, N. Y.—The Board of Water Commissioners plan to begin construction of a municipal water-works plant soon. Morrison & Farrington, Syracuse, N. Y., are the Engrs. City has voted $240,000 of bonds for the project.

RENSSELAER, N. Y.—The Rensselaer Water Co. has awarded LEAHEY & SHUFELT, of Rensselaer, the contract for constructing a 5,500,000-gal. reservoir.

INDIANA, PA.—The contract for the water purification works here has been awarded to MARK BENNETT, of this city, at about $35,000.

BRIDGEVILLE, DEL.—See item under Sewers.

FREDERICK, MD.—This city will lay additional pipe line from reservoirs to city line, using 20 or 24-in. main. Estimated cost, $15,000.

ALEXANDRIA, VA.—City Council has authorized additional issue of $45,000 of bonds to extend and improve water-works and electric plant.

MOULTRIE, GA.—Bids are asked by the city until July 20 (an extension of time from July 14) for material consisting of c.-i. pipe, hydrants and valves, tower and tank and pumping engine for the enlargement and extension of the water-works system. H. S. Jaudon is Engr., Box 582, Savannah, Ga.

CUTHBERT, GA.—City will vote on bond issue for water-works. D. A. McPherson is Mayor.

LYON, MISS.—Bids are asked by the Water Commissioners for furnishing material and constructing reinforced-concrete reservoir, laying about 10,000 ft. 4 and 6-in. water mains, with hydrants and valves, for furnishing gasoline engine and pump. J. B. Sanford is Mayor; W. S. Bobo, of Clarksdale, is Engr.

FORT ST. PHILIP, LA.—Bids will be received until Aug. 2 by Capt. Louis F. Garrard, Jr., Q. M., 416 Hibernia Bank Bldg., New Orleans, La., for construction of water and sewer system, including steel tank and trestle and concrete reservoir.

FRANKLIN, TENN.—City has voted a 35,000 bond issue for extension of water-works and sewerage systems.

NEWPORT, KY.—City has postponed date of opening bids for furnishing equipment and supplies for water-works from July 8 to July 15. Joseph Rehling, Water-works Comr.; John W. Hill & Sons, First National Bank Bldg., Cincinnati, Ohio, are Engrs. Advertised on June 17.

ALLIANCE, OHIO.—L. E. Chapin, of Canton, Ohio, has been engaged to prepare plans and specifications for the improvement of the water-works here, and will award contracts as soon as the plans are ready for bids. There will be considerable new equipment added and installed.

LEWISVILLE, IND.—The Town Board will receive bids until July 22 for the steel substructure and steel tank, gasoline engine and power pumping machinery, cast-iron water pipes, hydrants and other material and installation of same in proposed water system.

*DETROIT, MICH.—Bids are asked until noon, Sept. 14, by the Board of Water Commissioners for three pumping engines at the new pumping station, each engine to be of 30,000,000-gals. capacity.

GRAND RAPIDS, MICH.—Bids were received by the Board of Public Works on July 1 for new smokestack at city pumping station. Bids were as follows: H. R. Heinicke, New York, brick, $8,265 and $8,550; Webber Chimney Co., Chicago, concrete, $5,875; M. W. Kellogg Co., New York, radi-brick, $8,900, and with terra cotta trimmings, $10,650; Metal Concrete Chimney Co., St. Louis, concrete, $6,660; Alfons-Custodis Chimney Construction Co., New York, concrete, $7,965; brick, octagonal base, $10,265; brick, plain base, $9,640; Heine Chimney Co., Chicago, brick, $12,794; Hauser, Owen and Ames, Grand Rapids, brick, $13,700.

Bids for the construction of the pumping station were advanced to July 22, because the architects have not yet had time to complete the specifications.

COLUMBIA, ILL.—Geo. Cadogan Morgan, of Chicago, has been selected to prepare plans, etc., and report on the advisability of installing water-works and a sewer system in Columbia.

PELLA, IOWA.—This city has voted for municipal water-works.

BUHL, MINN.—Bids will be received until July 15 by the Village Council for laying ten blocks of water mains; also 2,926 lin. ft. 6-in. sewer pipe, eight manholes and four flush tanks, etc. E. F. Johnson, of Virginia, Minn., is Engr. M. A. Nichols is the Village Recorder.

BEMIDJI, MINN.—The City Council has let the contract for the city pumping plant to J. J. ROBINSON CO., of St. Paul, Minn., at $6,324.

OSAGE CITY, KAN.—We are officially advised that bids will be received by City Clerk until 3 p. m., July 27, for constructing water-works. Burns & McDonnell, Kansas City, Mo., Engrs.

RUSSELL, KAN.—We are officially informed that an election will be held July 21 to vote on issuing $65,000 of bonds for water-works. Engineers, Burns & McDonnell, Kansas City, Mo.

MARION, KAN.—Burns & McDonnell, Engrs., Kansas City, Mo., are preparing plans for water-works to cost $60,000.

VALENTINE, NEB.—A. M. Morrissey, Village Clk., states that bids will be received about Aug. 1 for the construction of water works and an electric-light plant, to cost $40,000.

BRYANT, S. DAK.—Contract for constructing water-works has been awarded to J. L. WHITE, of Sioux Falls, S. Dak., at $7,700.

*FORT MEADE, S. DAK.—Bids were received as follows by the Constructing Quartermaster, U. S. A., on July 2 for constructing intake dam and pipe line for water system at Fort Meade: Spriggs & Johnson, St. Paul, Minn., $63,333; Grams & Schummer, Sturgis, S. Dak., $61,772; Bartlett & Co., Deadwood, S. Dak., $44,518.

CARL JUNCTION, MO.—Bids are asked until 5 p. m., July 28, by the City Clerk for construction of water-works system. The Michel-Cooke Engineering & Construction Co., Joplin, Mo., Consult. Engr.

CLARENDON, ARK.—Bids are asked until 2 p. m., Aug. 2, by Board of Improvements, Guy Murphy, Chn., for driving an 8-in. artesian well. C. H. Jenks, Engr., Fayette, Miss.

CHILDRESS, TEX.—City has awarded contract to JOHN B. HAWLEY, Fort Worth, Texas, for extension of water-works. Cost, $35,000. Noted on July 1.

MINCO, OKLA.—City proposes to vote on issuance of $10,000 of bonds for water-works extension.

GRANITE OKLA.—City will adopt plans and specifications for $30,000 water-works plant. Bond issue of $45,000 was voted in June for water-works and proposed electric-light plant.

ROCKY FORD, COLO.—We are officially advised that the Pearl Springs Water Co. has been incorporated at Rocky Ford, Colo. The object of the company is to supply Rocky Ford, La Junta, Swink, Sugar City, Ordway and Manzanola, Colo., with pure spring water from springs on Steel Ford and Horse Creek. The springs are located 58 miles north of Rocky Ford. The plan of the company is to build a large pipe line from the springs to reservoirs above each of the mentioned cities and towns and to furnish the water by a gravity system, the plan of developing the water will be a series of wells with pipes connecting with the bottoms then run to the main pipe line which will be three parallel 18-in. pipe lines. Chas. A. Reynolds, of the Columbia Land & Cattle Co., is Pres.; Reuben A. Sawyer, Ch. Civil Engineer of the American Beet Sugar Co., is Vice-Pres.; Wm. B. Gobin, of Glenn, Gobin and Beall, Attys, is Secy.; Albert R. Beymer, Hydraulic Engr. of the American Beet Sugar Co., is Engr., Rocky Ford. Construction work will commence within a short time, and 14 months is the estimated time required to finish the project.

FORT LOGAN, COLO.—Bids will be received until July 22 by the Constructing Q. M., at Fort Logan for constructing an addition to the water distributing system at this post.

*NORTH YAKIMA, WASH.—Bids will be received at the office of the U. S. Reclamation Service, Miller Bldg., North Yakima, until 2 p. m. Aug. 16, for the construction of Sulphur Creek wasteway channel and structures near Sunnyside, Wash. The work includes the construction of about 4¼ miles of channel, involving about 225,000 cu. yds. of excavation, and the placing of about 1,600 cu. yds. of concrete masonry, and 2,000 cu. yds. of riprap.

PORTAGE LA PRAIRIE, MAN.—See item under Sewers.

REGINA, SASK.—Bids will be received until July 19 by J. Kelso Hunter, City Clk., for furnishing 22,800 ft. 18-in., 7,350 ft. 6-in. c.-i. pipe and necessary special castings; gate valves and valve boxes; twelve tons lead pipe, 200 curb boxes, and 30 tons soft lead. Angus Smith is City Engr.

VICTORIA, B. C.—Bids will be received by W. W. Northcott, Civic Purchasing Agent, until Aug. 16, for a quantity of cast-iron pipe, pig lead, gate valves, etc., for the water-works system.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

PROVIDENCE, R. I.—The Board of Aldermen and Common Council on July 1 adopted resolutions appropriating $200,000 for sewers and $30,000 for centrifugal pumps at the sewage pumping station. O. F. Clapp is City Engr.

BATAVIA, N. Y.—On June 30 the citizens voted to install a complete system of sewers, from plans of Rudolph Hering, 170 Broadway, New York, at a cost not exceeding $375,000.

BUFFALO, N. Y.—Bids are asked until July 16 by Francis G. Ward, Comr. Pub. Wks., for constructing 10 and 12-in. tile sewer in a portion of Doat St.

SYRACUSE, N. Y.—Contract No. 4, which calls for the construction of Section 2 of the main intercepting sewer, has been awarded to JOHN YOUNG, 2705 Lodi St., Syracuse. Cost is reported to be about $231,287. G. D. Holmes is Ch. Engr. Intercepting Sewer Bd.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., July 21, (a) for furnishing all the labor and material required for constructing sewers in Apple, Peach and Pear Sts., Wallabout Market lands; (b) for furnishing all labor and material required for constructing sewer in Hemilton Ave., between Court St. and Bush St., and an outlet sewer in Bush St., between Hamilton Ave. and Court St.; (c) for sewer outlet in 22d Ave., from the end of the existing 24-in. pipe sewer to a point 751 ft. into Gravesend Bay, Boro. of Brooklyn.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., July 28, for constructing sewers and sewer basins on various streets in Brooklyn.

ATLANTIC CITY, N. J.—Bids will be received by the City Council until July 20 for the construction of a portion of the storm water drainage system for the city. E. D. Rightmire is City Engr.; T. Chalkey Hatton, Consult. Engr., Wilmington, Del.

NEWARK, N. J.—Bids are asked until July 15 by the Board of Street and Water Commissioners for constructing the Passaic Ave. sewer and branches, requiring 1,010 lin. ft. 24-in. reinforced-concrete pipe sewer, 1,025 lin. ft. 18, 12 and 10-in. vitrified salt-glazed pipe sewers, etc.; also constructing Mercer Court sewer, requiring 190 lin. ft. 10-in. vitrified salt-glazed pipe and 100 lin. ft. 6-in. house connections. M. R. Sherrerd is Ch. Engr.

SIVERLY (Oil City post-office), PA.—Bids will be received until July 24 by the Borough of Siverly, Station 1, Oil City, for the construction of storm and sanitary sewer system. E. H. Pierce is Boro. Engr., 437 Chambers Bldg., Oil City.

PHILADELPHIA, PA.—Bids were received on June 29 for construction of main and intercepting sewers, and the following are the lowest bids: Extension of the Botanic St. sewer system in 57th St., in Eastwick Ave. to Schuylkill River, Robert P. Ryan; cost, about $30,000. Extension of Cobb's Creek intercepting sewer, Robert Higgins; cost, about $70,000. Extension of Market St. main sewer, Michael McNulty, cost, about $15,000.

*LEECHBURG, PA.—See item under Streets and Roads.

BRIDGEVILLE, DEL.—Bids are asked by the Town Board until 1 p. m., July 20, for constructing sewer and water-works systems here. The Hass Engineering Co., Bulletin Bldg., Philadelphia, Pa., are Engrs.; R. R. Layton is Secy.

HUNTINGTON, W. VA.—Bids are asked until 2 p. m., July 19, by the Board of Commissioners for the construction of a lateral sewer in the alley between Fourth and Adams Aves., from First St. to Johnson Lane. John Coon is Comr. of Streets and Sewers.

ATLANTA, GA.—According to the Atlanta "Constitution," the city has secured options on three tracts of land to be used as sites for three septic tanks with which to dispose of the city sewage. Rudolph Hering, 170 Broadway, New York, Sanitary Engr., whose services were secured to map out a plan for Atlanta's sewerage system, has submitted a preliminary report. Mr. Hering has made a preliminary estimate of the cost of the system and he places his figures at $1,670,000. This includes the cost of the land for the three sites, the construction of the tanks, the extension of the trunk sewers to the tank sites, the building of intercepting sewers, and the erection of pumping stations. R. M. Clayton is City Engr.

MONTGOMERY, ALA.—Bids are asked until July 19, by Robert Taft, City Treas., for constructing sanitary sewers in Forest Ave., Stephenson St., O'Connell St., Hall St. and South Court St.

LOUISVILLE, KY.—Bids are asked until noon, July 23, by the Sewerage Commissioners, J. B. F. Breed, Chief Engr., for the construction of a sewer known as Section "D" of the Northwestern Sewer, Contract No. 48. Work will consist mainly of building a reinforced-concrete sewer 6 ft. and 6 ft. 3 ins. in diameter, total length about 3,320 ft., and from 18 ft. to 21 ft. deep; and including about 2,350 cu. yds. of concrete, and 259,000 lbs. of steel.

Bids were received on July 2 by the Sewerage Commissioners for the construction of the 34th St. outlet sewer and the northeastern Section B sewer which is a tributary of the Beargrass sewer. T. J. O'CONNELL, of Baltimore, Md., was awarded the contract to build the 34th St. sewer. His bid was $50,000.

E. A. BAKER & SONS, of Chicago, Ill., were the lowest bidders on northeastern Section B sewer, and the contract was awarded to them. The work will be done at a cost of $13,000. Fruin-Conlon Construction Co. was the only other bidder on this work. E. G. Nave, of Portsmouth, Ohio, and the Fruin-Conlon Construction Co. were the other bidders on the 34th St. outlet.

HOPKINSVILLE, KY.—Bids are asked until Aug. 3 by State Board of Control for Charitable Institutions, Albert Scott, Pres., at Western Kentucky Asylum for Insane, for material and labor required in erection of septic tank on premises of Western Kentucky Asylum for Insane.

*COLUMBUS, OHIO.—Bids are asked until July 26 for constructing about 2,000 ft. of 30-in. brick or concrete sewer. F. H. Eno, Engr. Bd. Trustees, Ohio State University.

PORT CLINTON, OHIO.—Bids will be received until July 26 by J. J. Huber, Village Clk., for constructing sewers in Sewer District No. 1. Bids on labor and material to be stated separately.

YOUNGSTOWN, OHIO.—The State Board of Health is reported to have granted permission to build an outlet for the Poland Ave. sewer, provided the city submit plans for a sewage disposal system by Jan. 1, 1910. F. M. Lillie is City Engr.

CINCINNATI, OHIO.—A. J. HENKEL has secured contract for constructing sewer in Probasco Ave. at $8,552.

CLEVELAND, OHIO.—The contract for the construction of the portion of the intercepting sewer between Marquette St., N. E., and East 61st St., was awarded to WILLIAM LEHMAN on July 6 by the Board of Public Service. The work will cost $47,168.

BREMEN, IND.—Bids are asked until 8 p. m., July 21, by T. F. Knoblock, Town Clerk, for constructing trunk sewer to include 36-in. vitrified pipe or reinforced-concrete pipe sewer, and 18-in., 20-in. and 24-in. vitrified pipe sewer.

ROCKVILLE, IND.—Bids are asked by the Tuberculosis Hospital Commission, Indianapolis, Ind., until July 22, for sewers and heating and ventilating equipment for the hospital now in progress of construction near Rockville.

GRAND RAPIDS, MICH.—The contract for construction of a sewer in George and other streets has been awarded to PETER DeWITT for $5,320. Louis W. Anderson is City Engr.

MARSHALL, ILL.—The contract for constructing 2.2 miles of reinforced-concrete and vitrified pipe sewers has been awarded to R. H. McWILLIAMS, of Mattoon, Ill., at $18,941.

CHICAGO, ILL.—Bids will be received until July 15 by Board Local Improvement for constructing brick and tile pipe sewers in portions of several streets, including Indianapolis, Kenwood, South Center Aves., 108th, 77th and other streets. C. A. V. Standish is Secy. Bd.

SPRINGFIELD, ILL.—It is stated that the contract will be let the latter part of July for sewers on Douglas Ave., about 1,350 ft. 18-in. pipe, and 500 ft. 12-in. inlet pipe and two manholes. Frank H. Hamilton is City Engr.

HARRISBURG, ILL.—The REEB BROS. CONSTRUCTION CO., of Belleville, Ill., has secured contract for constructing sewers at about $35,000.

VIRGINIA, MINN.—Bids will be received by the City Council until July 20 for constructing a sanitary sewer in District No. 3. H. Albert Bickford is City Clerk.

KINGMAN, KAN.—Bids are asked until 5 p. m., Aug. 2, by B. A. Welch, City Clerk, for furnishing material and constructing sewers in District No. 1. The work includes 22,070 lin. ft. 6-in. pipe, 22,316 lin. ft. 8-in. pipe, 1,019 lin. ft. 10-in. pipe, 1,673 lin. ft. 12-in. pipe, 1,442 lin. ft. 15-in. pipe, 100 manholes, 32 flush tanks. McLane & Myers are Engrs., Hutchinson, Kan.

ALLIANCE, NEB.—Bonds to the amount of $45,000 have been sold to be used for the construction of a sewer system. William Grant, of Alliance, is Engr.; F. W. Irish is City Clerk.

MITCHELL, S. DAK.—Bids will be received at the office of L. L. Ness, City Audr., until July 20 for the construction of sewers. John L. Nelson is City Engr.

ABERDEEN, S. DAK.—Bids were received on June 25 by F. W. Raymond, City Audr., for constructing about 15,500 ft. of 15, 12, 10 and 8-in. pipe sewers, and the contract has been awarded to J. J. DUNNEGAN, of Shenandoah, Iowa, at $22,518.

MONTICELLO, ARK.—Bids are asked until Aug. 3 by this city for about seven miles of 8-in. to 12-in. pipe sewers, with two purification plants. Walter G. Kirkpatrick is Engr., Jackson, Miss.

ROGERS, ARK.—We are officially advised that the town of Rogers proposes to establish a system of sanitary sewers to cost about $40,000. The district has been formed, a Sewer Commission appointed, plans and specifications drawn and the town is ready

to receive bids on the work. Rogers is located in Benton County, 333 miles from St. Louis and has a population of 4,000. F. F. Freeman is Pres. Rogers Commercial Club.

HOUSTON, TEX.—It is stated that HORTON & HORTON have secured contract for constructing the 9-ft., 8-ft. and 7-ft. sections of the Austin St. sewer for $38,369, $28,659 and $19,745, respectively. All bids received for the 10-ft. section were rejected and new bids will be received. This portion of the contract will amount to about $75,000. Daniel C. Smith is City Controller; F. L. Dormant, Consult. Engr., City Hall.

NEWKIRK, OKLA.—Bids will be received at the office of E. G. Davis, City Clerk, until July 16 for furnishing material and constructing sanitary sewer system of about eight miles of 8 to 15-in. pipe and one septic tank. M. A. Earl & Co., of Muskogee, Okla., are Engrs.

CHANDLER, OKLA.—Bids will be received until Aug. 3 by J. Bart Foster, City Clerk, for constructing a sewer system. Bonds have been issued for this purpose amounting to $25,000. J. A. McLaughlin is Mayor.

CLOVIS, N. MEX.—MARSHALL BROS., of Las Animas, Colo., are reported to have secured contract for constructing sewer system for $29,300. Burns & McDonnell are Engrs., Scarritt Bldg., Kansas City, Mo.

TACOMA, WASH.—RICCO & JEPE have been awarded the contract for building a sanitary sewer in District 187, taking in territory from G to Park and 48th to 64th Sts., for $13,272. The estimate was $17,827.

SPOKANE, WASH.—The City Council has authorized the construction of sewers on Cliff Ave., alley, near Boone and Maple Ave., Eighth Ave., and on 14th Ave.

THOMAS MALONY secured contract at $4,130 for constructing a sewer on Indiana Ave.

PAYETTE, IDAHO.—C. P. Lattig, City Engr., has completed his preliminary surveys for a sewer system and submitted his report to the City Council. He estimates that the sewer system would cost approximately $15,000.

PORTAGE LA PRAIRIE, MAN.—Several extensions of the water and sewerage system have been ordered by the City Council, it is stated.

REGINA, SASK.—Bids will be received until July 19 by Angus Smith, City Engr., for a supply of sewer pipe.

VANCOUVER, B. C.—On the recommendation of N. A. Clement, City Engr., the Board of Works has decided to proceed with the construction of city sewers to cost about $75,000.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

BELMONT, N. H.—Bids will be received until July 19 by A. W. Dean, State Engr., Concord, for grading and surfacing 2,500 ft. of the Merrimac Valley Road, in the town of Belmont.

EPPING, N. H.—Bids will be received until July 16 by A. W. Dean, State Engr., Concord, for grading and surfacing a portion of the main road from Manchester to Portsmouth, in the town of Epping.

BOSTON, MASS.—Bids are asked until noon, July 19, by Guy C. Emerson, Supt. of Streets, Boston, for brick block pavement and regulating in Linden Park, Vernon, Whittier, Ruggles, Downing, Simmons and Hampshire Sts., Roxbury.

Walton H. Sears, Div. Engr., Charles River Basin Comn., Standish Bldg., Boston, advises us that Contract No. 128 of the Charles River Basin Commission for surfacing sections 2, 3 and 4 of the Boston Embankment along the Charles River, bids for which were received June 21, has been awarded to the HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., Boston, at $49,421. Hiram Miller is Ch. Engr. A complete list of bidders was given last week.

HARTFORD, CONN.—Bids will be received in the office of the State Highway Commissioner, the Capitol, until 2 p. m., July 16, for state road work as follows: Town of Orange, 7,250 lin. ft. mac.-tel. road, including one 18-in. and one 12-in. tile culvert; town of Milford, 10,005 lin. ft. mac.-tel. road, including one 30-in., three 18-in. and two 15-in. tile culverts; town of Old Saybrook, 10,000 lin. ft. mac.-tel. road, including two 12-in., one 15-in. and two 24-in. tile culverts.

Contracts for the construction of state road work, bids for which were received at the office of the State Highway Commissioner on July 6 have been awarded as follows: Town of Bloomfield, 15,920 lin ft. mac.-tel., including sixteen 24-in., two 15-in., seven 18-in., three 20-in., two 12-in. tile culverts and a reinforced-concrete arch bridge, to the PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, Conn., $2.30 per lin. ft. for (a) all trap macadam; $2.70 per lin. ft. for (b) all trap macadam with telford base; $2.20 per lin. ft. for (c) macadam with native stone; $2.60 per lin. ft. for (d) native macadam with telford base; 35 cts. per lin. ft. for (e) railing; 50 cts. per sq. yd. for (f) cobble gutters. Other bidders were: Connecticut Contracting Co., New Britain, Conn., (a) $2.66, (b) $2.75, (c) $2.61, (d) $2.65, (e) 35 cts., (f) 65 cts.; A. C. Sternberg & Sons, West Hartford, Conn. (c) $2.67, (d) $3.27, (e) 35 cts., (f) 63 cts.; Park Construction Co., Hartford, Conn. (a) $2.18, (b) $2.89, (c) $2.16, (d) $2.86, (e) $2.15, (f) $1.92; Lane Cons. Corp., Meriden, Conn. (a) $2.34, (b) $2.75, (e) 45 cts., (f) 60 cts. Town of Manchester, 4,700 lin. ft. mac.-tel., including one 10-in. tile culvert on Charter Oak St., to O. T. BENEDICT, Pittsfield, Mass., $1.59 for macadam, $2.39 for telford, 65 cts. sq. yd. for cobble gutters. Other bidders were: R. B. Davis, Hartford, Conn., $1.58, $2.52, 60 cts.; A. E. Douglass, Glastonbury, Conn., $1.70, $2.57, 65 cts., Also 4,175 lin. ft. of mac.-tel., including one 24-in. tile culvert, on Oakland St., to OLMSTED & OLMSTED, East Hartford, Conn., $1.34 for macadam, $2.40 for telford, 45 cts. sq. yd. for cobble gutters, $15 for timber work. Other bidders were R. B. Davis, Hartford, $1.52, $2.45, 60 cts., $35; A. E. Douglass, Glastonbury, $1.48, $2.38, 65 cts. $100; O. T. Benedict, Pittsfield, $1.49, $2.29, 60 cts., $25.

Plans have been received from E. B. Harger, Engr., for 7,487 lin. ft. of state road work in the town of Bethlehem.

ALBANY, N. Y.—Bids are asked by the Board of Contract and Supply, until 3 p. m., July 19, for street improvements, as follows: Improvement of Morris St., from the west line of South Lake Ave. to east line of Ontario St., pavement to be of repressed vitrified paving blocks; improvement of Myrtle Ave., between South Lake Ave. and Quail St., pavement to be of vitrified paving blocks; and improvement of State St., from the west line of Quail St. to the east line of Ontario St., paving to be of vitrified paving blocks on a concrete foundation. The work also includes the necessary grading, curbing, laying sidewalks and constructing vitrified pipe sewers. Walter Melous is City Engr. Isidore Wachsman, Secy. of Bd.

NEW YORK, N. Y.—Bids are asked by the Park Board, Henry Smith, Pres., until 3 p. m., July 29, for furnishing and delivering 800 bbls. of emulsifying road sprinkling oil (No. 1, 1909), for parks, Boro. of the Bronx.

Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, July 27, for (a) furnishing all the labor and materials required for regulating, grading and paving with iron slag block, wood block and granite block pavements on a concrete foundation the roadways of Jay St., South St., Ferry Approach, Hyatt St. and Stuyvesant Pl., from Richmond Terrace to Weiner Pl., being Contract No. 4 of the St. George Ferry approach, and for (b) furnishing all the labor and materials required for regulating, grading and paving with iron slag block pavement on a concrete foundation the roadway of Griffin St. and Stuyvesant Pl., from Bay St. to Weiner Pl., being Contract No. 5 of the St. George Ferry Approach.

NEW YORK, N. Y.—Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, July 20, for furnishing and delivering 60,000 gallons of liquid road oil, with asphalt as a base; for furnishing and delivering 160,000 gallons of bituminous road surfacing material, with tar as a base.

Bids are asked until 11 a. m., July 22, by Louis F. Haffen, Pres. Boro. of the Bronx, for paving with asphalt blocks and with granite blocks on a concrete foundation the roadway of East 176th St., from Arthur Ave. to the Southern Boulevard, and setting curb where necessary.

The following bids were received on July 6, by John F. Ahearn, Pres. Boro. of Manhattan, for regulating and paving with sheet asphalt pavement on a concrete foundation the roadway of St. Nicholas Terrace, from 130th to 140th Sts.: Barber Asphalt Paving Co., 30 Church St., New York, $25,438; Asphalt, Cement & Construction Co., $26,078; Sicilian Asphalt Paving Co., $32,818; Uvalde Asphalt Paving Co., 1 Broadway, New York, $25,675.

NEW YORK, N. Y.—Bids are asked by M. F. Loughman, Acting Comr. of Water Supply, Gas and Electricity, until 2 p. m., July 21, for repairing and restoring artificial stone sidewalks and curbing and resetting natural stone curbing.

Bids are asked until 3 p. m., July 22, by the Park Board, Henry Smith, Pres., for completing the contract of Joseph A. Boyce, which was abandoned, for furnishing and delivering crushed trap rock and trap rock screenings in parkways, Boro. of Brooklyn.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 2 p. m., July 21, for regulating, grading, curbing and flagging various streets in Manhattan.

AMSTERDAM, N. Y.—MICHAEL F. DOLLARD, of Albany, N. Y., has been awarded contract for the improvement of several streets in the city of Amsterdam. The contract price is about $25,000.

ROCHESTER, N. Y.—The City Council on June 22 passed ordinances as follows: Bartlett St. asphalt pavement, estimated cost, $18,000; Brooks Ave. pavement, $34,000, and Frankfort St., asphalt, $4,200.

*MATTEAWAN, N. Y.—Bids are asked by the Village of Matteawan until 8 p. m., July 23, for grading, regulating curbs and paving with repressed vitrified paving brick first quality of block size on Main St., from corporation line of Village of Fishkill Landing to point on range with northerly line of Herbert St., and on Fountain St., from the intersection of Main St. to a point on range with the southerly line of Liberty St. Estimated quantity, 16,500 sq. yds.

*HOBOKUS, N. J.—Bids are asked until 8 p. m., July 26, by the Borough Council, Hobokus, for the laying of about 25,000 lin. ft. of curb and about 100,000 sq. ft. of sidewalks, with the required grading of sidewalks and the necessary pipe and basins for drainage. William H. Deer is Boro. Clerk; William Ferguson & Son, 152 Market St., Paterson, N. J., are Boro. Engrs.

TRENTON, N. J.—Bids are asked by the Common Council until 8 p. m., July 20, for paving Behm St. with macadam. Harry B. Salter is City Clerk; Abram Swan, City Engr.

*NEWARK, N. J.—We are officially advised that bids were received by the Committee on Roads and Assessments of the Board of Chosen Freeholders of Essex County on July 8 for grading and paving with bituminous telford pavement, river road in the town of Nutley, extending from the Belleville town line to the Passaic County line. The contract has been let to the OSBORNE-MARCELLES CO., of Upper Montclair, N. J., at $11,892.

SOMERS POINT, N. J.—Bids will be received by the Board of Chosen Freeholders of Atlantic County, Memorial Hall, Atlantic City, until Aug. 4 for grading and macadamizing the Shore Road from the bridge at Absecon to New Jersey Ave., Somers Point. E. D. Rightmire is County Engr., 108 Bartlett Bldg., Atlantic City.

SOMERVILLE, N. J.—The Board of Freeholders has awarded contracts as follows: MOBUS & BURKE for constructing Green Brook Road, at $11,039 for asphaltum binder, and to A. E. STOUT for Blawenburg Road, at $18,285 for asphaltum binder.

*ELIZABETH, N. J.—We are officially advised that bids were received by the County Road Committee of the Board of Chosen Freeholders of the County of Union, at the Court House, Elizabeth, on July 9, for the construction of a stone road with the second course of "amiesite," beginning at South Ave. and extending to Raritan Road. The length of the roadway between said points is about 9,982 lin. ft. The width of the stone work is 16 ft. F. J. Hubbard is County Engr. The bids follow: Union County Contracting Co., Cranford, N. J., $30,754; Henry R. Edwards, Yardley, Pa., $33,882; O'Rourke Bros., Yonkers, N. Y., $30,083; Weldon Contracting Co., Rahway, N. J., $26,044.

PITTSBURG, PA.—Bids are asked until noon, July 16, by R. J. Cunningham, Controller of Allegheny County, for improving the Lock 3 and Elkhorn Road and the Greensburg Pike No. 2. Road.

NORRISTOWN, PA.—We are officially advised that the following bids per cu. yd. were received recently for grading (fill) Cherry St., between Elm and Oak Sts.: Daniel Shannon, Norristown, Pa., 50 cts.; George N. Weaver, Norristown, 43 cts.; Monroe Gerhardt, Norristown, 40 cts.; Robert Hull, Norristown, 34½ cts.; J. C. Wood, 35 cts.; EVANS & MEWHINNEY, Norristown, 29¾ cts. (awarded contract). The excavated materials to be taken from the bed of James and Pine Sts. S. Cameron Corson, City Hall, Norristown, is Boro. Engr.

HANOVER, PA.—The contract has been let to the CENTRAL CONSTRUCTION CO., of Hanover, at $2.16 per sq. yd. for paving with Fairmount brick and at 60 cts. per lin. ft. for granolithic curbing. A. E. Kohn is City Engr.

*LEECHBURG, PA.—We are officially advised that the following bids were received by the Council on July 6, for 4,460 sq. yds. brick or block paving; 3,280 lin. ft. sandstone or concrete curb; 1,230 lin. ft. 8-in. sewer pipe with house branches; 200 lin. ft. 6-in. sewer pipe with house branches; two manholes. Robert H. Wilson is Boro. Engr., Saltsburg, Pa.: (a) Repressed fire clay block, Standard or Hillside per M., (b) repressed block shale, (c) wire cut brick fire clay per M., (d) wire cut brick shale: Allegheny Valley Brick Co., Tarentum, Pa., (a) $13.50, (b) $12.50, (c) $10, (d) $9; Kittanning Fire Clay Co., Kittanning, Pa., (a) $15, (c) $10.90; U. S. Sewer Pipe Co., Pittsburg, Pa., (a) $15, (c) $9.60; Mack Mfg. Co., Pittsburg, (a) $17.15, (c) $12.20; Penna. Clay Co., Pittsburg, (a) $17, (c) $11.30; J. B. Hammond Brick Co., Bolivar, Pa., (a) $15, (c) $10.50; American Sewer Pipe Co., Pittsburg, (a) $17.75, (c) $11.90; Malone Stone Co., Cleveland, Ohio, 5 × 20-in. straight curb, 28 cts. per ft.; McKallip & Co., Pittsburg, Pa., sewer pipe and branches, 83% off list price.

Bids for paving and sewerage; paving prices on basis of repressed block at $13.50 per M. (a) sandstone curb in place, per ft., (f) concrete curb in place, per ft., (g) grading, per cu. yd., (h) paving with 8-in. slag or cinder foundation, per sq. yd., (i) 8-in. sewer in place, per lin. ft., (j) 6-in. sewer in place, per lin. ft., (k) manholes, each: D. K. Hill, Leechburg, Pa., (e) 50 cts., (f) 40 cts., (g) 40 cts, (h) 81.4 cts., (i) 62.5 cts., (j) 60 cts., (k) $48; M. Bennett & Sons, Indiana, Pa., (e) 62 cts., (f) 48 cts., (g) 60 cts., (h) $1.014, (i) 62 cts., (j) 50 cts., (k) $40; Duster Contracting Co., Tarentum, Pa., (e) 47 cts., (g) 35 cts., (h) $1.02, (i) 45 cts., (j) 35 cts., (k) $32; Thomas White, (e) 38 cts., (f) 40 cts., (g) 44 cts., (h) $1.43.

CHESTERTOWN, MD.—The JUNIATA CO., of Philadelphia, Pa., has secured the contract for constructing 3½ miles of road from Chestertown to Kennedyville, at about $34,000.

*BALTIMORE, MD.—Bids are asked by the State Road Comn., Union Trust Bldg., until noon, July 26, for building eight sections of state highways, aggregating about 25½ miles. John M. Tucker is Chn.; J. C. Bowerman is Secy.

*NORFOLK, VA.—Bids are asked by the Board of Control, Norfolk, until noon, Aug. 2, for regulating and paving with some smooth material, the following streets and avenues in the city, or parts thereof: Colonial, Pembroke Aves., Warren, Crescent, Bridge, Botetourt, Twelfth, Holt Sts., Redgate Ave., Mowbray Arch East and Mowbray Arch West. W. T. Brooks is City Engr.

NEW ORLEANS, LA.—The Council Committee on Budget and Assessments has reported favorably on the ordinance providing for paving with asphalt St. Claude St. at an estimated cost of $260,000.

MARIETTA, OHIO.—We are officially advised that on July 8 the following bids were received by James C. Wonders, State Highway Comr., Columbus, for work on Washington County Highway B, Green St. Road, Marietta: W. C. Peters, Marietta, rolled stone or gravel foundation, $16,500; Putnam & Price, rolled stone or gravel foundation, $15,899; same, on rolled stone or gravel foundation with sand filler, $15,266; L. T. CISLER, Marietta, rolled stone or gravel foundation, $15,490 (awarded contract); The T. B. Townsend Brick & Contracting Co., Zanesville, Ohio, rolled stone or gravel foundation, $15,610.

The contract has been let to WILSON & YORDLEY, Newark, Ohio, at $12,416, for paving one mile of public highway, from Caldwell to Belle Valley.

CLEVELAND, OHIO.—Bids are asked by the Board of Commissioners of Cuyahoga County until 11 a. m., July 28, for grading, draining and improving Independence Road, from the intersection of Fl... and Petrie Sts. to Harvard Road in N... Village, in accordance with t... tract and specifications to b... A. B. Lea, County Surv...

FINDLAY, OHIO.—Bids a... noon, July 31, by the Commis... cock County for the construct... of stone pike on what is com... the Krout Road, which com... east line of Madison and D... ships, Hancock County, Ohio, ... between Sections 28, 33, 27, 34, ... 30 and 31, Delaware Township ... line between Hancock and W... and there terminate.

CINCINNATI, OHIO.—The ... been let to the KIRCHNER CO... CO., at $79,287, for paving ... from Fischer's west line to w... line, with granite; A. J. HE... 019, for paving Pine Tree St... City Ave., to Tremont St., with ... H. Sundmaker is City Engr.

WOOSTER, OHIO.—Bids are ... July 17 by County Commission... ter, for grading and paving wi... ft. of road in Baughman Tow... mated cost, $6,423. J. H. Villard is Chn.

COLUMBUS, OHIO.—The Board of Public Service on June 25 awarded contracts for paving as follows: Grant Ave., to A. G. PUGH, Union National Bank Bldg., at $7,002; Pearl St., to W. H. LUCHTENBERG & CO., The Wyandotte, $16,662; ... Seventh St., to N. B. ABBOTT, 85 North High St., at $12,566.

COLUMBUS BARRACKS, OHIO.—Bids will be received until 10 a. m., July 16, by Capt. H. J. Hirsch, Constr. Q. M., Columbus Barracks, for constructing roads, walks, etc., at this post.

NORWOOD, OHIO.—Bids are asked by the Board of Public Service until noon, July 19, for furnishing and delivering f. o. b. Norwood siding, 80,000 gallons of crude asphaltic oil in such quantities as the Board of Public Service may from time to time direct. James A. Stewart, Traction Bldg., Cincinnati, Ohio, is Engr.

AKRON, OHIO.—The Board of Public Service on July 8 awarded the contracts for paving Broadway from Mill St. to Buchtel Ave.; Dodge Ave., from Market St. to Payne Ave., and Quarry St., from Broadway to Main St. The Broadway paving contract was awarded to WILDES & DAVIDSON. The contract calls for Akron block, tar filler, concrete base and stone curb. The bid of the successful bidder for this kind of paving was $17,068. The Dodge Ave. paving was awarded to E. McSHAFFREY & SON, their bid being $3,463. The material to be used is Akron block, tar filler and combination curb. The contract for paving Quarry St. was awarded to E. McSHAFFREY & SON, the bid being $4,206. This contract calls for Akron block from High to Broadway, and Medina stone from Main to High Sts. John T. Payne is City Engr.

ELYRIA, OHIO.—The contract has been let to H. J. GLOVER, of Lorain, Ohio, at $7,732, for the Wellington Road and at $7,327 for the La Grange Road. Work includes grading, draining and macadamizing.

TOLEDO, OHIO.—The contract for furnishing material and repairing Monclora Stone Road No. 6 has been awarded to C. W. RYAN, of Whitehouse, Ohio, at 99 cts. per ton for stone, 97 cts. per ton for screenings, and 5 cts. per ton for berme. D. T. Davis is County Audr.

Bids will be received until July 26 by D. T. Davis, Jr., County Audr., for repairing Ludwig stone road No. 16, Providence Township, and Monroe St. stone road No. 12, Washington and Sylvania Townships.

WAUSEON, OHIO.—Bids are asked until 10.30 a. m., July 26, by J. E. Merrill, County Audr., for grading, draining and improving by furnishing, hauling and placing stone on gravel in the following roads: Road No. 35, commencing at the Angola Road on township line between Dover and Franklin Townships; thence north on section lines, terminating at the quarter post of Section 19, Town 9 South, Range 2 East. Road No. 52, commencing on the township line between Royalton and Chesterfield Townships, Fulton County, Ohio, in Section 19 of Royalton Township; thence east one mile to intersect public road, between Sections 19 and 20 of said township. Road No. 55, commencing at the northwest corner of Section 30, Town 9 South, Range 4 East, in Amboy Township, Fulton County, Ohio; thence east on section lines across said township, terminating at county line. Road No. 61, commencing on the township line at the southwest corner of Section 7, Town 9 South, Range 4 East, in Amboy Township, Fulton County; thence east on section lines across said township, and terminating at county line. Road No. 80, commencing about 80 rods west of the north quarter-post of Section 2, Town 7 North, Range 6 East, Dover Township, Fulton County, Ohio; thence south following line of road to the north corporation line of Wauseon, Ohio, and there to terminate.

FOWLER, IND.—Bids are asked by the Commissioners of Benton County until 1 p. m., Aug. 3, for the construction of the following stone roads: The Bergland Road in Grant Township; estimated cost, $11,700. The Rommel Road on line between Center and Oak Grove Townships; estimated cost, $14,390. The Bowers Road on line between Center and Pine Townships; estimated cost, $17,900. The Michels Road on line between Union and Richland Townships, also bridges and culverts; estimated cost, $3,675. The Balensiefer Road on line between Parish Grove and Hickory Grove Townships, also bridges, culverts and tiling; estimated cost, $10,900. Lemuel Shipman is County Audr.

DANVILLE, IND.—Bids are asked by the Commissioners of Hendricks County until 10 a. m., Aug. 2, for the construction of 6,791.85 lin. ft. of gravel road in Center Township. William H. Nichols is County Audr.

DANVILLE, IND.—The Commissioners of Hendricks and Marion Counties will soon ask for bids for the construction of a gravel road on line between the two counties. William H. Nichols is County Audr.

VERSAILLES, IND.—Bids are asked by the Commissioners of Ripley County until noon, Aug. 3, for the construction of 20,625 ft. of macadamized road in Adams Township. Nicholas Volz is County Audr.

EVANSVILLE, IND.—The FRANKFORT INDIANA CONSTRUCTION CO. has secured the contract to pave Main St. with asphalt at $1.85 a sq. yd. Estimated cost $22,000.

VERNON, IND.—Bids will be received by the Commissioners of Jennings County until Aug. 2, for the construction of two miles of pike road in Geneva Township. T. L. Thomas is County Audr.

RUSHVILLE, ILL.—The contract has been let to A. F. FRANKS, of Jacksonville, Ill., at $30,650, for constructing 15,000 sq. yds. of brick pavement on concrete base.

HARRISBURG, ILL.—ROY L. WILLIAMS, of Cairo, Ill., has secured the contract for 26,600 sq. yds. of brick paving and 19,350 lin. ft. of sandstone curb in Harrisburg for $56,100.

STAUNTON, ILL.—The contract for 9,917 sq. yds. of brick paving has been awarded to WOLF BROS., of Alton, Ill., for $20,859. George H. Luker is Mayor.

BUSHNELL, ILL.—Bids probably will be received about Aug. 1 for 11,888 sq. yds. of brick pavement to cost about $27,000. E. A. Pratt, of Bushnell, is Engr.; W. H. Dawson is City Clerk.

HOMER, ILL.—HOFFMAN & TOWNSEND, of Marion, Ill., have been awarded the contract, at $27,064, for the paving of Main St., which includes 4,480 ft. of Attica gravel and Danville paving brick.

EAST ST. LOUIS, ILL.—We are officially advised that bids were received by the Board of Local Improvements on July 7 for the improvement of a portion of 14th St. by grading, curbing, paving with brick and sewering. Frank B. Hanna is Clk. The contract has been let to J. & P. KEELEY, at $6,383.

ASHLAND, WIS.—Bids will be received by the Board of Public Works until July 17 for improving Seventh Ave. James Phillips is City Engr.

MASON CITY, IOWA.—TSCHIRGI & SONS, of Dubuque, Iowa, have secured the contract, at $1.19 per sq. yd. for paving 18,900 sq. yds. of streets with cement and concrete, and at $1.26 per sq. yd. for paving 5,825 sq. yds. of alley with cement and concrete.

MAQUOKETA, IOWA.—Bids were received on June 30 for paving and the contract has been awarded to M. FORD, of Cedar Rapids, at the following bid: 17,275 sq. yds. Purrington brick paving, on 5-in. concrete base, $1.64; 1,860 ft. plain curb, 6 × 20 ins., 32 cts.; 4,335 ft. combined curb and walk extension, 52 cts.; 5,065 cu. yds. excavation, 42 cts.; 15 catch basins (each, $10); total, $33,458.

LEAVENWORTH, KAN.—The contract for the curbing of Scott St. has been awarded to FRED TARRY, at 37½ cts. per ft. The contract for paving Scott St. has been awarded to O. C. CHAPIN on a Portland cement base at $1.50 per sq. yd., and the contract for paving Seventh St., from Kiowa to Metropolitan Aves., to McGUIRE & STANTON, at $1.50 per sq. yd., on a Portland cement base, and grading at 35 cts. per cu. yd.

*GREAT FALLS, MONT.—Bids are asked until 8 p. m., Aug. 9, by W. P. Wren, City Clerk, for paving First Ave. South, from the west line of Park Drive to the east line of Sixth St. (exclusive of that portion of said avenue occupied by the Great Falls Electric Properties, amounting to approximately 75 sq. yds.) with creosoted wood block. C. W. Swearingen, Great Falls, is City Engr.

KANSAS CITY, MO.—Bids will be received until July 16 by Board of Public Works for furnishing and erecting complete ready for service an asphalt paving plant. Robert W. Goodnow is Secy.

ALVA, OKLA.—The contract has been let to RACKLIFFE-GIBSON CONSTRUCTION CO., of St. Louis, Mo., at $50,000, for the construction of hassam pavement in this city.

SPOKANE, WASH.—The Board of Public Works has awarded the contract for paving Third Ave. to the INDEPENDENT ASPHALT PAVING CO., at $32,777.

SEATTLE, WASH.—The Board of Public Works on June 25 awarded the contract for paving 31st Ave. South to P. J. McHUGH, at $106,305.

CENTRALIA, WASH.—The following are the totals of bids received for paving Pearl, Walnut, Locust and other streets, about 20,000 sq. yds., with necessary storm water drainage, curb, etc., (a) asphalt, (b) wood block, (c) vitrified brick, (d) Hassam concrete: Lister Construction Co., Tacoma, Wash., (b) $70,720, (c) $70,720; Northwest Bridge Co., Tacoma, (b) $64,000, (c) $71,000; B. S. Davis, Tacoma, (b) $65,228; Bell-Scott Co., Seattle, Wash., (d) $58,500; Sparger Concrete Co., Seattle, (a) $66,200; F. A. Keasel, Tacoma, (c) $67,142; Wright & Sweeney, Tacoma, (a) $60,557, (b) $63,163, (c) $62,700.

TACOMA, WASH.—Contract has been let to WARTER BROS., Tacoma, at $49,185, for street paving work in District No. 422, and at $45,450 for similar work in District No. 423.

PORTLAND, ORE.—The OREGON HASSAM PAVING CO. has been awarded contract to pave East Seventh, East Eighth, Wasco and Hassalo Sts., according to the Portland "Oregonian."

LOS ANGELES, CAL.—Bids are asked by the Board of Supervisors until July 26 for improving Wilshire Boulevard.

Bids for installing machinery at rock quarries and on furnishing rock from private quarries for the road system heretofore set for July 26 will be received until Aug. 2.

SALT LAKE CITY, UTAH.—Contracts for public improvements calling for a total expenditure of $105,179 were awarded to P. J. MORAN by the Board of Public Works on June 25. The contracts, with the respective bids, are on the following improvements: Paving Extension 35, State, from Seventh to Ninth South Sts., $36,408; Paving Extension 48, Eighth South, from Main to State Sts., $13,400; Paving Extension 55, First West, from South Temple to Third South Sts., $55,371. Louis C. Kelsey is City Engr. Bids were received on June 18.

WESTMOUNT, QUE.—On July 5 the City Council awarded contract for $83,944 for paving St. Catherine St., Greene Ave., Dorchester St. and Victoria Ave. to the BITULITHIC PAVING CO., Montreal, and the BARBER ASPHALT PAVING CO., 40 Hospital St., Montreal, Que.

MIDLAND, ONT.—Bids are asked by Thomas I. Trueman, Town Clerk, until 6 p. m., July 26, for construction of approximately 20,000 lin. ft. of concrete walks (street crossings included) in the town of Midland.

REGINA, SASK.—Bids will be received until July 19 by J. Kelso Hunter, City Clerk, for 1,000 lin. ft. curb and gutter, 5,000 sq. ft. cement sidewalk, and 1,225 sq. yds. pavement. Angus Smith is City Engr.

MANUFACTURING PLANTS.

(*denotes that this work is advertised in Engineering News.)

FRANKLIN, MASS.—Plans are under consideration by the Franklin Felt Co. for the erection of a mill on what is known as the Fisher farm. The concern has just been organized in this city, with a capital of $80,000. Harry T. Hayward, Pres., is owner of the property.

SOMERVILLE, MASS.—Plans have been finished for the Boston & Maine R. R. Co.'s proposed locomotive plant in East Somerville and within a few days the specifications are expected to be sent out for bids, according to the Boston "Globe." It is the intention to build this summer and fall only one of the large buildings of the plant and this will be used for the running repairs on the locomotives entering Boston and suburbs only. This building will cost $200,000 and will be ready by fall. It will be a steel building and it will be on a foundation of piling. The other buildings will be erected next summer. The first building which will be known as the "running repairs" shop, will be 170 × 208 ft., and one story high. It will give employment to about 150 men. Much work is planned in connection with this building in laying out new tracks, as a part of the system to reach all buildings when the plant is completed. H. Bissell, Boston, is Ch. Engr.; H. Barlett is Gen. Mech. Supt.

BRIDGEPORT, CONN.—It is stated that at the close of the present season the Ringling Bros. Co. will begin the enlargement of the winter quarters here, which originated with P. T. Barnum and have of late housed the Barnum & Bailey, Forepaugh & Sells Bros. and Buffalo Bill shows during the winter, and will eventually have a plant which will include a factory for the construction of cars and buildings for other manufacturing, so that Ringling Bros., who now control various circuses, will be able to manufacture everything used in the circus.

ROCKVILLE, CONN.—We are officially advised that the Hockanum Mills, of Rockville, Conn., have plans prepared by Charles T. Main, Mill Engr. and Arch., 45 Milk St., Boston, for a dye house of one story, 194 × 75 ft. Regular mill construction is to be employed. The floor is to be concrete covered with vitrified brick. The dye kettles will rest upon hard pine beams supported by brick piers. The building is to be heated and ventilated by means of heating coils in connection with fan blowers. There will be a 2½-story office building, 71 × 51 ft. Among the main features will be 22 wooden ventilating stacks for taking care of the steam from the dye kettles. The contract for the buildings has been let to the NORCROSS BROS. CO., 10 East Worcester St., Worcester, Mass.

NEW YORK, N. Y.—Bids are asked by John J. Barry, Comr. Dept. of Correction, until 11 a. m., July 22, for furnishing all labor and material required to make the necessary repairs, etc., to the ice making plant on Hart's Island, New York.

PHILLIPSBURG, N. J.—Plans are reported as nearly completed by the Standard Silk Co., of Phillipsburg, for erection of an addition to its plant. It will extend the entire length of the present mill on the north and east, and when completed, it is said that 200 new looms will be installed.

TEMPLE, PA.—Seidel Bros. of the Maiden Creek Hosiery Co., are enlarging their mill. The foundation has been finished and the brick work will be started at once. It will require about 150,000 bricks. JAMES SCHROCK has the contract to lay the bricks. Their business has increased from time to time, making the new addition a necessity.

WILKES-BARRE, PA.—Ground has been broken in Dorranceton for the plant to be operated by the Grigerio Silk Co., of Paterson, N. J. The factory is to be built on Eley St. The new concern is capitalized at $125,000, and nearly all the stock is sold. Three buildings will be erected. The main structure is to be 87 ft. wide and 205 ft. in length. The boiler house will be 44 × 39 ft., and the engine house will be 40 × 45 ft. All of the buildings are to be completed by Sept. 1 and the machinery, all the most improved and modern, is to be installed therein as soon as the structures are completed. The business of the company will be silk throwing.

MANAYUNK (Philadelphia post-office), PA.—Wolstenholme & Clarke, manufacturers of worsted weaving and knitting yarns on the French system, will erect a large mill on Allegheny Ave., Manayunk. The structure will be five stories high, 500 ft. long and 112 ft. wide, and will be of reinforced concrete. This new mill will double the firm's present capacity. Construction work probably will be started early in October, and it is expected the building will be ready for operation at the end of December.

CHARLOTTE, N. C.—The Chadwick-Hoskins Co., which owns five cotton mills here, announces its plans to enlarge the Calvin Mill No. 3. It will be increased from 7,000 to 13,000 spindles, and two warehouses will be erected, each 50 × 100 ft., besides a number of new tenement houses. The improvements will cost $100,000.

GOLDVILLE, S. C.—The Banna Mfg. Co., Goldville, S. C., has arranged for its proposed enlargement. It will add 4,096 spindles and 250 looms for the production of print cloth, and will erect an additional building to accommodate the machinery. There are 6,032 spindles in the original plant, and with the new equipment the company will be enabled to weave all its own product of yarns into cloth. Other improvements will be made also, including the erection of 15 cottages for the additional operatives who will be required, a church, a store and a warehouse. All these improvements are expected to be ready for use before the end of the year.

SHREVEPORT, LA.—The American Creosoting Co., of Indianapolis, Ind., has purchased the George W. Signor Tie Co., the creosoting plant in this city, for the sum of $350,000, and will make improvements to the amount of about $50,000. The property consists of a plant for creosoting cross ties, piles and telephone poles, etc., and has extensive yards and railroad facilities.

NASHVILLE, TENN.—Application has been made for a charter for a hosiery manufacturing company to be located near the state prison in Nashville. It will employ convicts on textile work, under a lease recently secured from the state for that purpose. The corporation is to be capitalized at $100,000 by W. B. Davis, W. H. Hartford, Henry Garant, W. C. Teas and Herbert Bushnell. Operation will be started as soon as the plant can be prepared.

LOUISVILLE, KY.—Bids are asked by B. F. Avery & Sons, 15th and Main Sts., Louisville, until July 21, for the buildings of their proposed manufacturing plant, including electric power plant, erected complete, also on the several distinctive parts, as follows: Excavating, grading and concrete work; brick work, cut stone and terra cotta; timber and carpenter work; mill work; steel work and railings; cast-iron work; roofing; sheet-metal work; painting and glazing. There are eleven buildings, with a total floor area of nearly ten acres. George M. Brill is Engr., Marquette Bldg., Chicago, Ill.

DRESDEN, OHIO.—It has been decided by the newly organized Dresden Sewer Pipe Co. to build a $75,000 plant at Dresden this summer. It will employ between 150 and 200 men at the start. The plant will be along the same lines as that at Junction City, Ohio. Lee Humphreys, of Junction City, is Pres. and C. D. Moore, Secy.

CLEVELAND, OHIO.—The Standard Welding Co. has taken out a permit for a factory building to be erected on the corner of West 76th St. and the Lake Shore tracks. The building is to cost $30,000.

NEWARK, OHIO.—It is stated that plans for the G. Edwin Smith Shoe Co. plant, to be erected in Newark, have been prepared and the architects, Richards, McCarty & Bulford, are receiving construction bids. The plant will be 40 × 180 ft., three stories high at one end and two stories on the other. The site of the building probably will be at the foot of West Church St. The factory will have a capacity of 1,500 pairs daily and will employ 300 people.

MILWAUKEE, WIS.—Herman J. Esser, Arch., 426 Camp Bldg., Milwaukee, has completed plans for a manufacturing building to be erected at Hubbard Pl. and Harmon St., Milwaukee, for the Weyenberg Shoe Co., 122 Reed St. The building will be 140 × 200 ft., five stories high, of brick and mill construction. Estimated cost, $75,000.

RACINE, WIS.—The Racine Steel Casting Co. will erect foundry, machine shop and office buildings. The architect has not yet been selected.

IOLA, KAN.—The Middle West Portland Cement Co. will erect a plant east of the city. Thomas J. Anderson, of Iola, is interested.

ST. LOUIS, MO.—Handlan-Buck Mfg. Co., 210 North Third St., will erect an 8-story brick factory and warehouse, 426 × 210 ft., to cost $300,000.

WOMBLE, ARK.—Womble Brick & Tile Co. will erect a brick plant here to cost $5,000. C. M. Howells and Milton Robins are interested.

SAN ANTONIO, TEX.—Charles A. Zilker and others will erect 6-story reinforced-concrete ice plant, 200 × 100 ft., and reinforced concrete smokestack, 175 ft. high. C. V. Suetter, Moore Bldg., San Antonio, is Arch.

EL RENO, OKLA.—The El Reno Packing & Provision Co. is to erect the following buildings in El Reno: Main building, six stories; hog killing, tank house and lard refinery, five stories; smoke-house and sausage room, three stories; power-house, fertilizer building, car repair shops, machine shops, blacksmith shops and icing sheds.

SALT LAKE CITY, UTAH.—F. J. Senior, of the Diamond Salt Co., which owns the salt ponds and pumping plant on the north side of the Saltair R. R., is planning another resort and also a salt plant on Great Salt Lake, and to bring this about will require an investment of about $300,000, it is stated. The resort will differ from Saltair in that there will be a beach, and grounds will be laid out like Lagoon. There will be a hotel.

TWIN FALLS, IDAHO.—Austin Bros., locating agents for the Utah-Idaho Beet Sugar Co., are negotiating with the business men of this town for the establishment of a $1,000,000 factory here.

TORONTO, ONT.—A $325,000 paper box factory and warehouse will be erected on Richmond St., near Peter St., by the Rudd Paper Box Co. It will be a 3-story building.

OTTAWA, ONT.—See item under Buildings.

VERA CRUZ, MEXICO.—The Compania Mexicana de Petroleo el Aguila, which was organized here recently with a capital stock of $25,000,000 Mexican money, plans to enlarge the refinery at Minitatlan, and will erect two additional refining plants. One of these will be situated at Tampico and the other either in this city or Vera Cruz.

MISCELLANEOUS CONTRACTS.

(* denotes that this work is advertised in Engineering News.)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

CABLE.—New York, N. Y.—Bids are asked until 10.30 a. m., July 21, by the Fire Department for 12,500 ft. of ten-conductor underground cable.

SAND, STONE.—New York, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, July 20, for furnishing and delivering sand and broken stone.

DREDGING.—Wilmington, Del.—Bids will be received by Capt. L. H. Rand, Corps Engrs., U. S. A., until July 21, for dredging Appoquinimink and Mispillion Rivers, Del.

DITCH.—Frankfort, Ind.—Bids are asked until 2 p. m., July 24, by the Drainage Commissioners, for construction of the John W. George ditch.

*DREDGING.—Saginaw, Mich.—Bids will be received until 3 p. m., July 26, by Lieut. Col. C. McD. Townsend, Corps Engrs., U. S. A., Detroit, for dredging Saginaw River and bar at mouth in Saginaw Bay.

DOCK, DREDGING.—Two Rivers, Wis.—Bids received by the Board of Public Works on July 2 for constructing a new dock on north side of West Twin River, have been rejected. New bids will be called for.

DITCH.—Glenwood, Minn.—The Board of Commissioners of Pope County have awarded contract to W. M. SHERWOOD, Alexandria, Minn., for constructing ditch No. 12. Estimated cost, $7,145. Ole Irgens, County Audr.

BARGE CANAL.—Albany, N. Y.—Bids will be received by F. C. Stevens, State Supt. of Public Works, until Aug. 3 for Contract 53, Oswego Canal, Section 1, which calls for constructing Lock No. 1 at Phoenix, N. Y., as noted last week.

PAINT.—Leavenworth, Kan.—Bids will be received until July 23 by R. V. La Down, Supt. of Prisons, Dept. of Justice, Washington, D. C., for furnishing and delivering at the U. S. Penitentiary, Leavenworth, structural steel paint.

PIERS.—North Chicago, Ill.—Bids will be received until noon, July 20, by J. E. Pillsbury, Ch. Bureau of Navigation, Navy Dept., Washington, D. C., for the construction of harbor entrance piers at Naval Training Station, Great Lakes, North Chicago.

LEVEE.—New Orleans, La.—Bids are asked until 3 p. m., July 20, by the Board of Levee Commissioners, Orleans Levee Dist., for building the Carrollton Beach levee and revetment, Seventh Dist. Estimated cost, $200,000. Col. Sidney F. Lewis is Ch. Engr.

DRAIN.—Des Moines, Iowa.—Bids received on July 6 by H. B. Frase, County Audr., for constructing a drain in Drainage Dist. No. 7, Madison Township, requiring the laying of 14,600 ft. 16, 14 and 10-in. tile, have been rejected. New bids will be received until Aug. 9.

VACUUM SYSTEM.—Pierre, S. Dak.—Bids will be received until Sept. 28 by the State Capitol Commission, John Herning, Secy., for furnishing and installing a vacuum cleaning system and vault fixtures at the new Capitol building. C. E. Bell, Arch., Minneapolis, Minn.

DITCH.—Crookston, Minn.—Bids were received on June 26 by O. L. Hamery, County Audr., Marshall County, for constructing County Ditch No. 20. Contract was awarded to the NORTHWESTERN DRAINAGE CO., Grand Rapids, Wis., at 11.88 cts. per cu. yd.; total, $124,767.

DITCH.—Bloomington, Ill.—The Board of Commissioners of the Lawndale and Cropsey Drainage District have let contract to the TIMOTHY FOOHEY DREDGING CO., at $25,555, for constructing a dredge ditch, 14.7 miles in length. A. H. Bell is County Survr., Colfax, Ill.

DREDGING.—Cleveland, Ohio.—Bids were received on June 28 by Lieut. Col. John Millis, Corps Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for dredging Cleveland Harbor. The Great Lakes Dredge & Dock Co., Chicago, was the lowest bidder, at 17 cts. per cu. yd.

DITCH.—Bancroft, Neb.—Bids will be received until July 15 by C. E. Farley, Secy. Bancroft Drainage District, Bancroft, for excavating a ditch, 15 ft. at bottom, ½ to 1 slopes, 9 ft. deep, 15 ft. berms; 300,000 cu. yds. The Towle Engineering Co., 322 Bee Bldg., Omaha, is Engr.

RIVER IMPROVEMENTS.—Fremont, Neb.—Bids will be received until July 22 by the Board of Trustees, Elkhorn Valley Drainage District for constructing nine miles of cut-offs, reducing the distance covered by the river from 30 to 21 miles. Estimated cost, $50,000. A. H. Norris, Engr.

*JETTY.—Galveston, Tex.—Bids were received by Capt. John C. Oakes, Corps Engrs., U. S. A., on June 10, for jetty work at Aransas Pass, Tex., as follows: Chas. Clarke & Co., Galveston, $435,505; D. M. Picton & Co., Galveston, $418,795. Itemized bids are given under Contract Prices in this issue.

DREDGING. — Duluth, Minn.—Bids for dredging in Duluth-Superior harbor were received on June 21 by Lieut.-Col. Graham D. Fitch, Corps Engrs., U. S. A. Contract has been awarded to the DULUTH-SUPERIOR DREDGE CO., of Duluth, at 13.5 cts. per cu. yd. Amount to be expended $20,000.

RIVER IMPROVEMENTS.—Lorain, Ohio. —Bids were received on June 22 by the Board of Public Service for improvement of Black River by widening, deepening and straightening the channel of same. Contract was let to the GREAT LAKES DREDGE & DOCK CO., Chicago. Estimated cost, $10,000.

DREDGING.—Wilmington, Del.—Bids were received as follows by Capt. L. H. Rand, Corps of Engrs., U. S. A., on July 8 for dredging Tuckerton Creek: Pennsylvania Dredging Co., Camden, N. J., 25 cts. per cu. yd., place measurement; the River & Harbor Improvement Co., Philadelphia, 26.9 cts.

*DREDGING.—Newport, R. I.—Bids were received on June 29 by Lieut.-Col. J. C. Sanford, Corps Engrs., U. S. A., for dredging about 30,000 cu. yds. in harbor at Block Island, R. I. Bid of the J. S. Packard Dredging Co., Providence, R. I., at 21.75 cts. per cu. yd., was recommended for acceptance.

DITCH.—Champaign, Ill.—Bids will be received until July 17 by the Commissioners of Newcomb Special Drainage Dist. of the Counties of Champaign and Platt, at the office of Ray & Dobbins, Attorneys, Champaign, for constructing the main open ditch for these counties, requiring the removal of about 18,433 cu. yds. of dirt.

DREDGING.—Wheeling, W. Va.—The following bids were received on June 28 by Capt. F. W. Altstaetter, Corps, Engrs., U. S. A., for dredging at dam No. 13, Ohio River, about 50,000 cu. yds.: Monongahela & Western Dredging Co., Pittsburg, Pa., 13 cts. per cu. yd.; the Ohio River Contract Co., Evansville, Ind., 19 cts.

*ABUTMENTS, PIERS, ETC.—Wheeling, W. Va.—Bids were received on June 16 by Capt. F. W. Alstaetter, Corps Engrs., U. S. A., Wheeling, for abutment, piers and weirs for Dam No. 8, Ohio River. The Hollerbach & May Contract Co., Evansville, Ind., was the lowest bidder, at $229,954. Bids in detail are given in this issue under Contract Prices.

BREAKWATER. — Ashtabula, Ohio.—Bids were received on June 28 by Lieut. Col. John Millis, Corps Engrs., U. S. A., 813 Prospect Ave., S. E., Cleveland, for extending and repairing outer breakwater at Ashtabula Harbor. Lowest bidder was the Edward Gillen Dock, Dredge & Construction Co., Racine, Wis., at $1.45 per cu. yd. for quarry run stone.

DREDGING. — Washington, D. C.—Bids were received by Maj. Jay J. Morrow, Corps Engrs., U. S. A., on July 2, for dredging in (a) Breton Bay, Md., (b) Pamunkey, and (c) Mattaponi Rivers, Va.: The Miner Engineering Co., Bond Bldg., Washington, was the lowest bidder as follows: (a) 12,000 cu. yds., 11 cts. per cu. yd.; (b) 15,000 cu. yds., 19 cts.; (c) 15,000 cu. yds., 23 cts.

LEVEE.—New Orleans, La.—Bids were received on June 29, by Capt. H. Burgess, Corps Engrs., U. S. A., for constructing new levee in the Lower Tensas District. The following bids have been recommended for acceptance: for 118,500 cu. yds. levee, Greens levee, Lot 2, Helgason Bros., Vicksburg, Miss., at 31.5 cts. per cu. yd.; for 103,000 cu. yds., Greens Levee, Lot 1, Donovan & Daley, Lake Providence, La., at 31.4 cts.

DREDGING.—San Francisco, Cal.—The lowest bids received by Lieut.-Col. John Biddle, Corps Engrs., U. S. A., San Francisco, on June 14, for dredging Stockton Channel, Cal., were submitted by the Standard American Dredging Co., Merchants Exchange Bldg., San Francisco, at $19,332; and the American Dredging Co., 95 Market St., San Francisco, at $21,150. Estimated quantity, 180,000 cu. yds.

BULKHEAD.—New York, N. Y.—Bids are asked by Lawrence Gresser, Pres. Boro. Queens, Long Island City, until 11 a. m., July 21, for furnishing all the labor and material necessary for repairing for and building a concrete bulkhead, and removing part of old bulkhead at the foot of Straiton Ave., Alexander Ave., Sea View Ave., Storm Ave., and Jerome Ave., Arverne, Rockaway Beach, Fifth Ward.

*CEMENT.—Cincinnati, Ohio.—Bids were received by Col. Wm. T. Rossell, Corps Engrs., U. S. A., Cincinnati, Ohio, on June 21, for furnishing about 14,000 bbls. of American Portland cement at Fernbank, Ohio. The lowest bidders were: The Lehigh Portland Cement Co., Cleveland, Ohio, for "Lehigh" brand, $1.18 per bbl. of 375 lbs., and the Alma Cement Co., Wellston, Ohio, for "Alma" brand, $4.22 per bbl. of 376 lbs.

TOWER.—Wilmington, Del.—Bids were received by the Light House Engineer, Wilmington, Del., on June 16, for erecting steel tower at Reedy Island Range Rear Light Station, Del. Bids were also received on June 16 for metal iron for this tower. The bid of the Samuel J. Creswell Iron Works, Philadelphia, at $10,480, was recommended for acceptance for the metal work; the bid of the Atlantic Dredging Co., Philadelphia, was recommended for the erection of tower, at $1,150.

*DREDGING.—New London, Conn.—Bids were received as follows on June 15 by Maj. Harry Taylor, Corps Engrs., U. S. A., for dredging in New Haven Harbor: (A) price for Mill River, estimated, 50,000 cu. yds.; (B) price for basin, estimated, 61,000 cu. yds.: J. S. Packard Dredging Co., (A) and (B) 8.89 cts.; Maritime Dredging Co., (A) 19 cts., (B) 16 cts.; John A. Seely (A) 28 cts., (B) 19 cts.; P. Sanford Ross, Inc., (A) 10.9 cts., (B) 9.6 cts.; Atlantic Dredging Co., (A) 13.7 cts., (B) 10.3 cts.

DREDGING.—New York, N. Y.—Bids are asked by the Department of Docks and Ferries until noon, July 20, for Contract No. 1188, for furnishing all the labor and materials required for dredging about 150,000 cu. yds. on the East and Harlem Rivers, Boroughs of Manhattan, Brooklyn, Queens and the Bronx, and in the Boro. of Richmond.

Also for Contract No. 1193, for furnishing all the labor and materials required for dredging about 25,000 cu. yds. in the Boroughs of Manhattan, Brooklyn, Queens, the Bronx and Richmond.

TIMBER PLANK.—Albany, N. Y.—Bids are asked by F. C. Stevens, Supt. Public Works, until noon, July 20, for furnishing several million feet of timber and plank to be used for repair and improvement purposes on the New York State canals. The various kinds of material called for include white oak, white pine, Georgia pine, Washington fir, and hemlock; while smaller quantities of spruce, maple, beech and elm are also called for. The material is to be sawed to the dimensions given in the specifications and deliveries must be made at various points along the line of the canal on or before Dec. 1, 1909.

BARGE CANAL.—Albany, N. Y.—Barge Canal Contract No. 30, calling for the construction of the canal, river and land line, from Little Falls to Sterling Creek, a distance of 14.62 miles, has been awarded by F. C. Stevens, Supt. Public Works, to the ACME ENGINEERING & CONTRACTING CO., of Schenectady, N. Y., for $2,591,666; and Barge Canal Contract No. 42, providing for the construction of the canal from the Herkimer-Oneida County line to a point just east of Oriskany Road, a distance of 8.96 miles, to SHANLEY-MORRISSEY, INC., 527 Fifth Ave., New York, for $1,163,625. Bids for this work were opened on June 22; details were given in issue of June 24.

PIERS.—St. Louis, Mo.—Bids are asked by the Board of Public Improvements until noon, July 27, for furnishing all materials, tools and labor necessary for the river and shore piers of the municipal bridge over the Mississippi River at St. Louis, Mo., constituting the first section or part of the municipal bridge as authorized by ordinance No. 24457. The estimated quantities are as follows: Foundation work complete in place below the cutting edge of the caissons, 349.2 cu. yds.; foundation work from cutting edge of caissons to top of crib work, 21,139.7 cu. yds. Masonry of piers from commencement of neat work to under side of coping, 16,679.4 cu. yds. Granite coping and bridge seat stones, 10,132 cu. yds. Specifications are on file at office of Boller & Hodge, 149 Broadway, New York. W. B. Dryden, Secy.

*SEA WALL, ETC.—Governor's Island (New York post-office), N. Y.—The following bids were received on June 25, by Col. S. W. Roessler, Corps Engrs., U. S. A., Army Bldg., New York, for completing the granite seawall and continuing embankment construction at Governor's Island, New York Harbor: (a) for stone furnished and placed in riprap foundation for seawall, per ton; (b) for masonry seawall, per lin. ft.; (c) for constructing embankment, furnishing and placing materials as required, per cu. yd. above mean low water, measured in place; (d) time to complete: Morris & Cummings Dredging Co., 17 State St., New York, (a) 40 cts., (b) $21, (c) 21 cts., (d) 24 months; Henry Steers, Inc., 17 Battery Pl., New York, (a) 38 cts., (b) $21, (c) 18⅞ cts., (d) 15 months (recommended for acceptance); S. A. Bailey, New York, (a) 50 cts., (b) $25, (c) 30 cts., (d) 12 months.

*CAUSEWAY.—Galveston, Tex.—Contracts have been awarded as follows by the Auditor of the County of Galveston for building a causeway across Galveston Bay, between Galveston Island and Virginia Point: To the A. M. BLODGETT CONSTRUCTION CO., Commerce Bldg., Kansas City, Mo., for roadway, $577,000; for reinforced concrete arch bridge, $655,000; total, $1,232,000. To the PENN BRIDGE CO., Beaver Falls, Pa., for the lift bridge, at approximately $97,400; the exact amount cannot be given as there were some little details on this lift bridge contract to be adjusted; total, $1,329,400, to which will have to be added as compensation agreed upon for the trestle bridge now in use, $100,000, and for engineering and other expenses about $50,000, making grand total, as nearly as can be figured out now of $1,479,400. Noted last week.

Readers' Wants

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

CONTRACTORS' SUPPLIES. — Portland, Ore.—United Engineer & Construction Co. desires catalogs from firms furnishing contractors' supplies of all kinds.

GASOLINE RAILROAD CARS.—Cadiz, Ohio.—We are informed by G. L. Severcool, Co. Engr., that he desires information on gasoline railroad cars for passenger service.

STEAM WINCH.—Erie, Pa.—In a letter from the Erie Pump & Engine Co. they state that they desire information concerning a small winch suitable for handling the controlling lines of a suction hose.

LINK BELT CONVEYORS.—Canton, N. C. —R. A. Hunt, care of Champion Fibre Co., desires to be placed in communication with manufacturers of link belt conveying apparatus.

TRENCH EXCAVATING MACHINES.—Rock Ford, Colo.—Albert R. Beymer, Engineer of the Pearl Springs Water Co., writes us to secure information concerning trench excavating machines.

CONCRETE FLOORS.—Sandy Hill, N. Y.—H. A. Moody writes us for information relative to granolithic finish for concrete floors and general information on the subject of concrete flooring.

WATER MOTORS AND FANS.—Pikeville, Ky.—J. W. Call, of the Mountain Water Co., writes us that he is in the market for small water motors and fans and desires information and prices on the same.

WATERPROOFING.—Rock Ford, Colo.—We are requested to furnish Albert R. Beymer, Engineer of the Pearl Springs Water Co., information concerning waterproofing compound for concrete reservoir and pipe work.

WATER PIPE.—Rock Ford, Colo.—Manufacturers of water pipe should communicate with Albert R. Beymer, Engineer of the Pearl Springs Water Co., who desires information on the subject of water pipe. See item under Water-Works.

REINFORCED CONCRETE WORK.—Santiago, Chile.—We are advised by E. E. L. Poulden, care of A. Scott, Ministerio de Industria Y Obras Publicas, that he desires literature from reinforced concrete contractors.

REVOLVING SCREENS.—Erie, Pa.—The Erie Pump & Engine Co. write us that they desire to get in communication with parties manufacturing revolving screens for use in connection with a sand and gravel plant which receives material from a suction dredge.

EXAMINATIONS.

ENGINEERS, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations on July 31 for the following positions: Assistant Civil Engineer, $1,801 to $2,400 per year, men only. Assistant Civil Engineer, $1,201 to $1,800 per year, men only. Rodman, $3.50 to $4 a day, men only. The last day for filing applications is July 24, at noon. For information and application blanks address State Civil Service Commission.

INDUSTRIAL NOTES.

FRANCIS W. GRANT, Supt. Bldgs., Seattle, Wash., advises us that building permits were issued in June to the number of 1,357, aggregating in value $1,656,425.

THE EDDY VALVE CO., Waterford, N. C., advises us that it has opened a branch office at 364-366 Broadway, New York City, in charge of Mr. J. T. McKenzie.

MR. JOSEPH H. WILLIAMSON, for 18 years business manager of the Manufacturer's Advertising Agency of New York, and for 7 years the business manager of the Viennot Advertising Agency of Philadelphia, has opened an office at 719 Temple Court, New York. He will represent trade journals.

THE CONTRACT for building 1,000 ft. of reinforced concrete docks for the Deering works of the International Harvester Co., Chicago, has been awarded to the Raymond Concrete Pile Co., of New York and Chicago. W. D. Price, engineer. The docks will be located along the north branch of the Chicago River.

W. A. REICHERT, for the past three years advertising manager for the Fort Wayne Electric Works, Fort Wayne, Ind., has resigned to accept a similar position with The Power and Illuminating Engineering Company, of Alliance, Ohio. This company is a commercial organization cooperating with Central Stations to increase the day load on their plants.

THE SULLIVAN MACHINERY CO., Railway Exch., Chicago, has installed a branch office at Australasia Chambers, Martin Place, Sydney, New South Wales, to further the sale of its air compressors, rock and diamond drills, coal cutters, etc., in the Australasian commonwealths. Its establishment is due to the growing importance of the mining industry in that field. The new office is in charge of Mr. George R. Mair.

THE FEATHERSTONE FOUNDRY & MACHINE CO., of Chicago, reports an order for a dipper dredge for the Sny Island Drainage and Levee District, of Quincy, Ill. It is of the heavy-duty, harbor and canal type, with a 2½-yd. bucket, a 70-ft. boom and a hull 40 × 100 ft. It is to be used in deepening and widening one of the main canals of the district, 56 miles in length, and the work will amount to about 2,000,000 cu. yds.

FOR THE PURPOSE of enlarging its New York interests and developing the engineering end in connection with large steam power installations, E. Keeler Company, of Williamsport, Pa., have associated with them T. R. Brown, as chief engineer, with headquarters at 29 Broadway, New York. Mr. Brown was formerly connected with the Pennsylvania Railroad as master mechanic of the Juniata Shops at Altoona; also with the Westinghouse interests and lately with the American Car & Foundry Co.

THE DATES for the Third Annual Cement Show in the Coliseum, Chicago, previously announced as February 17-23, 1910, have been changed to February 18-26, 1910. The show will open on the evening of February 18, and be open continuously until the evening of Saturday, February 26, being closed on Sunday, the 20th. Under the new dates the show will be open two days longer than the show held last February. The National Association of Cement Users have decided to hold their sixth annual convention in Chicago on February 21-24, 1910, these dates being covered by the Third Annual Cement Show.

THE C. O. BARTLETT & SNOW CO., Cleveland, Ohio, advises us that during the past week it has closed contracts through F. C. Greene, Mining Engineer, for complete coal mine equipments for the McGillveary Coal & Coke Co., at Coleman, Alberta and the West Canadian Colliers Co., at Bellevue, Alberta. The contracts include a steel tipple with all the necessary machinery, including the Greene Patent Transfer Dump, type 4, for each plant, as well as a complete power plant equipment and haulage system for both plants. The plants will be entirely electrically operated and are to be in operation by November 1st of this year.

ACCORDING to the Pittsburg Dispatch": Contracts for 2,500 all-steel cars have been given out in Pittsburg district. Their cost will aggregate over a half million dollars. The all-steel mine car has been brought largely into use in Pittsburg district the past year, when the Pittsburg Coal Co., the Jones & Laughlin Steel Co. and the Rail & River Coal Co. adopted them. These contracts include a total of about 1,600 cars for the Pittsburg-Buffalo Company, in its Greene County and West Virginia fields, and 900 more for the two West Virginia companies. For the two West Marianna mines in Greene County the Pittsburg-Buffalo Company has let contract for a total of 1,000 of the new cars, of the four-ton gondola variety, to the following companies: Standard Steel Car Co., 500; Pressed Steel Car Co., 200; Youngstown Car Co., 100; Connellsville Mfg. Co., 100; Arthur Koppel Co., 100. The Arthur Koppel Co. whose plant is near Beaver Falls, also secured a contract for 600 more of the new cars for the Pittsburg-Buffalo mines in West Virginia, along with orders for 900 cars from two companies in the Pocahontas field. These orders will result in putting the Beaver County plant on full turn. The Pittsburg-Buffalo Co. will this month let the contract for the first 100 coke ovens to be built at Marianna, to cost $100,000. Bids are now being received by the company for the new steel tipple, which will involve an expenditure of about $100,000 more. It will have a capacity of 10,000 tons a day.

For other Proposal Advertisements see pages 51, 52, 53, 54, 56, of Advertisements and Construction News page 24.

GARBAGE FURNACE.

Monessen, Pennsylvania.

Notice is hereby given by order of the Sanitary Committee of the Borough of Monessen, Pennsylvania, that sealed proposals will be received at the office of the Borough Engineer until July 28, 1909, at 12 o'clock M., for the construction and maintenance of a garbage furnace and for the collection of garbage for a term of ten (10) years.

Plans and specifications of proposed furnace and schedule of prices for collecting garbage shall be submitted with proposal.

Each proposal shall be accompanied by a certified check for $200.00 as a guarantee that the bidder enter into a contract and furnish sufficient bonds as required by Council in case the contract is awarded said bidder; said checks to be made payable to the Borough of Monessen. The right is reserved to reject any or all bids.

C. B. PARKINSON,
Borough Engineer.
DR. W. D. HUNTER,
Chairman of Committee.

Situations Open

ENGINEER, residing in New York or vicinity, expert in stadia surveying, capable as foreman over a few men, may find part time employment by addressing "P. B. 3," Engineering News, New York. 3-1t

WANTED—An expert computer for survey and subdivision work on curved lines; only those apply who are thoroughly familiar with curve computations and intersections, co-ordinate system. JOHN M. FARLEY, White Plains, N. Y. 3-1t

WANTED—A steam-shovel engineer for Western New York. Only thoroughly reliable man of known ability need apply. Address "O. B. 3," Engineering News, New York. 3-2t

WANTED—First-class concrete foreman with sufficient knowledge of reinforced concrete and heavy foundations for buildings; must have sufficient ability to lay out concrete form work; state wages. Apply P. O. BOX 55, Comstock, N. Y. 3-1t

DRAFTSMAN, experienced in coal-handling machinery and simple structural steel work; salary $80 to $110 per month, depending on ability; good chance for right man to develop into responsible position. Address "M. B. 3," Engineering News, New York. 3-1t

STRUCTURAL and Bridge Draftsmen and Checkers by large mill and bridge shop in Eastern Pennsylvania; good salaries and absolutely permanent positions to right men; only high-class men wanted. Address "R. B. 3," Engineering News, New York. 3-1t

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FOR SALE

13—Standard Gauge Western, 6 Yard, Center Dump Ballast Cars.

2—9 x 14 Vulcan Locomotives, 36 inch gauge.

All in excellent condition.

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